



SEQUENCE LISTING

<110> Helgadottir et al.

<120> SUSCEPTIBILITY GENE FOR MYOCARDIAL INFARCTION

<130> 30847/2051-004

<140> US 10/769,744

<141> 2004-01-30

<150> PCT/US03/32556

<151> 2003-10-16

<150> US 60/419,433

<151> 2002-10-17

<150> US 60/449,331

<151> 2003-02-21

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Pro Thr Phe Leu Ala Val Leu Trp Ser Ala Gly Leu Leu Cys Ser Gln
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 <212> DNA
 <213> Homo sapiens

 <400> 399
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 agcataatat ctattcttag aaaataacat taacacaaat agaaaacaag aaaccataat 180
 gttaaaaata ttacatagya acacagaaag acaatgtata attatacata cgcactaaag 240
 caaagataac ataatttata aattatgagg tacagaatag ttagattctg aaaattaaaa 300
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 gatcatgtag aacaggggaa aggagttcct gatcgg 396

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cattttctag gaagttgatt ctacaacaca ttttggtttt ccaatttggc ttctaataat 180
tatttcaaag tttctgtgrc ctaaattttg ttttacattg atcctttgaa tggactactg 240
tttccacatt ttagaacatt taaaaagata tctacaaccc gagtctaatac ataaaaaaaa 300
tcagacagat ccaaaatgtg gaacattcca ctaaaaaagg agtggggaga ggtctttatt 360
cttccaaaaa tatcaatgcc ataaaagaca aagacg 396

<210> 401
<211> 396
<212> DNA
<213> Homo sapiens

<400> 401
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accacaaaga tttggagcag catttggttac acaaaattag acaactatta cagttcgact 180
aaaaacatgt tcattttacra tactaaatta gaagtgtgaa aatgggagaa aaacttcata 240
ctttaaaagt cattttttcc tccaaaaact tccaactttg aaaaactgat ttttataatg 300
cataaaaaatt aaaataacct tagaatttat atgagtagca tagccagctg gctttattat 360
ctgttggtact caacacttca ataactactg atgttt 396

<210> 402
<211> 396
<212> DNA
<213> Homo sapiens

<400> 402
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tgtttttctt tttcctgtca cccaggacag agggcagtggtgtgtatcaca gctctgcagc 120
acgacttccc caggttcagg tgatcctccc acctcagcct cccaaggagc tgggaccaca 180
ggcacaatgcc accacgtcga gcttaatttt gtattttttt ggtagagatc aggttttgcc 240
ttattgcccc aagctgatct tgaattcctg ggctgaagca atctgcctgc cctggcctct 300
ccaagtgtta ggattacagg tataagccac cgtgcagcct tatattttgt tttaaatttt 360
cctctgtatt tttctctctg gcaaattggt taggga 396

<210> 403
<211> 396
<212> DNA
<213> Homo sapiens

<400> 403
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gaagcaatct gcctgccctg gcctctccaa gtgtaggat tacaggata agccaccgtg 120
cagccttata ttttgtttta aattttcttc tgtatttttc tctctggcaa attgttttagg 180
gagtttcttt agtttatcrg actaaatttc aaggctttcc ttccaatttt gacatgtaaa 240
cagtcctca tttctgctta tctagtatt attcccaaatt ctgtgtttac agtctagctg 300
tctctctga gattaagact tgtttctcta actacctgac ggcagaatct cctcttgga 360
gtatcaagga ggcagttcaa aactgaactg ggcatt 396

<210> 404
<211> 396
<212> DNA
<213> Homo sapiens

<400> 404
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attacaggta taagccaccg tgcagcctta tattttgttt taaattttcc tctgtatttt 120
tctctctggc aaattgttta gggagtttct ttagtttata agactaaatt tcaaggcttt 180
ccttccaatt ttgacatgya aacagtcctt catttctgct tatctagtga ttattcccaa 240
atctgtgttt acagtctagc tgtctctcct gagattaaga cttgtttctc taactacctg 300
acggcagaat ctctcttg aagtatcaag gaggcagttc aaaactgaac tgggcattgg 360
ctccactcct tctccttctc ttactatta atacc 396

<210> 405
<211> 396
<212> DNA
<213> Homo sapiens

<400> 405
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taacatgcta aggttttctt gacattctca gattgggtta ggtgaacttt tagcaactta 120
tctttttact aaaaagtcac ccctcagtat ctgtggggaa ttggttctag gactccctaa 180
ggatatcaaa atctgcatra gcagcccagg tgagaccagc agaagcactt tacagtcacc 240
tacaggatca tgacaaataa taaatcatgt ttaagccaca aagtccttta cataaatgg 300
tatagtattt gcatataacc tacacatctt cctgtatcct ttaaatactc tctagtttat 360
aatactcat acgatgaaaa tactacgtaa atagtt 396

<210> 406
<211> 396
<212> DNA
<213> Homo sapiens

<400> 406
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aatatactgg aaaaagccct ggattagaaa tgagaggatg taggttttag taccaggtca 120
gccaccttgt taatgcaaat ttgagtaaatt tgttacttct ttttaggcctt gtttttgctg 180

ttttggtttt ctgacagmtt ggtctctgtg gtccaggctg gagtgcagag gcacaatatc 240
 aggtccctgc agtctctacc tcccaggatc aagccatttt catgcctcat cctcctgagt 300
 agctgggatt acaggcatgt gccaccacac cctcgaactc ctgacctcaa gtgatctgct 360
 tgcctcagcc tcccaaagtg ctgggattag aggtgt 396

<210> 407
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 407
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 gttttgtttt tctgacagta tggctctctgt ggtccaggct ggagtgcaga ggcacaatat 180
 caggtccttg cagtctctrc ctcccaggat caagccattt tcatgcctca tcctcctgag 240
 tagctgggat tacaggcatg tgccaccaca cctcgaact cctgacctca agtgatctgc 300
 ttgcctcagc ctcccaaagt gctgggatta gaggtgtgag ccaactgtgcc tagccttaca 360
 cattgttttc ttactggtaa agtgggaata tctaga 396

<210> 408
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 408
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 caggtccttg cagtctctac ctcccaggat caagccattt tcatgcctca tcctcctgag 120
 tagctgggat tacaggcatg tgccaccaca cctcgaact cctgacctca agtgatctgc 180
 ttgcctcagc ctcccaaakt gctgggatta gaggtgtgag ccaactgtgcc tagccttaca 240
 cattgttttc ttactggtaa agtgggaata tctagaagt gcatgctaca taaattcaac 300
 catatattat tggcaaaaaa ttttaaagaa aaacatcagc ttaagagtac taattgagta 360
 catgccttgg aatgagcatg agctggaaag aacaaa 396

<210> 409
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 409
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 ctgctcattg taaatcttgc tcagtggcat gatttttagtg tttaaagatt tatttgttg 180
 tttgtttagg acaaagtcyc tacacataat ctacttgctt catatataca tacttatgca 240
 tattatgtat gtacatacat gctctcaggg ctcacatgaa aaaacagcca ttcaggatgat 300
 gtgatttatc tcatatgctt actttagagt caacaggggtg ttgactccac tatacaatac 360
 tggcatggag aacacataag tcaaagtaga caggac 396

<210> 410
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 410
 tttatttggt tgtttgttta ggacaaagtc tctacacata atctacttgc ttcatatata 60

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| catacttattg | catattatgt | atgtacatac | atgctctcag | ggctcacatg | aaaaaacagc | 120 |
| cattcagggtg | atgtgattta | tctcatatgc | ttacttttaga | gtcaacaggg | tggtgactcc | 180 |
| actatacaat | actggcatrg | agaacacata | agtcaaagta | gacaggaccc | agccgtacca | 240 |
| ttggctaggg | cacaaatata | ttcacatatg | tggagaatga | tgtacgtaga | aaggtcttca | 300 |
| ttgcacaatg | ctctttaata | aagatctgga | aaaaaaaaaac | acctaaatgt | tcaaaaggat | 360 |
| agggtagatg | aaataatggt | acattataaa | atggaa | | | 396 |

<210> 411
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|-------------|-------------|------------|------------|-----|
| <400> 411 | | | | | | |
| tctgtcaccc | aggctggagt | gcagtggcat | gatcatgtct | ccttgcagcc | ttgacttccc | 60 |
| tggctcaggt | gggcctccca | cctcagtctc | ccaagtagct | ggaactacag | tcgtgcacca | 120 |
| ccatagccag | ctaagatagt | gagatggtgg | ccccactgtc | ttgcccaggc | tggactcgat | 180 |
| ttcctgggtg | caagcacctst | tcccgcctca | gcctcccaaa | gtgctgggat | tacaggcatg | 240 |
| agtcaccatt | ccagcctact | tgtctttaat | tcttaaaaaat | attaatgttg | agttttgtct | 300 |
| ccagcatgt | gggaaagatg | tcattccattg | cttctgtttc | ctggaggcct | gggagcaagg | 360 |
| agcccaggaa | cagtatcacg | aagcttgaga | taatac | | | 396 |

<210> 412
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 412 | | | | | | |
| atcattgatg | ggcattttggg | ttggttccaa | gtctttgcta | ttgtgatttt | tttttttttt | 60 |
| tttttttttt | taagacagag | cctcactctg | ttgcccaggc | tggagtgcga | tggcatgata | 120 |
| tcagctcact | gcaacctccg | cctctcaggt | tcaagcaatt | cttctgcctc | agcctcccaa | 180 |
| gtagctggga | ctacaggcgc | ccaccaccag | gcccagctaa | tttttgtatt | tttagtagag | 240 |
| acagggtttc | accatgtttg | tcaggctggt | cttgaactcc | agacctcatg | atctgcctgc | 300 |
| cttggcctcc | caaagtgtctg | aaattacagg | tgtgagccac | catacctggc | ctaggcagtc | 360 |
| tttttcaaaa | ctctaagact | gtgcttgtgt | ctcagg | | | 396 |

<210> 413
 <211> 395
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| <400> 413 | | | | | | |
| ggtatgaggt | aaggatccat | ttttttccca | tttgcatagc | cagtttttgt | agctccactt | 60 |
| tattttctca | cttgatctgc | catgccacct | ctagcatgta | tcaacatata | atgtatgtgt | 120 |
| gcagctgttc | cttaactctc | aattttattc | tcttggttac | tttgtctaac | ccagcactca | 180 |
| tactttttaa | attattaygg | ctaccttgta | gggcaagaat | cctcactttt | attcaacttc | 240 |
| ttttgaagtg | tcttgatgca | tattttttct | gatcttactt | ggccatatat | attttgggga | 300 |
| cagatgtgac | atcataccaa | gctttctttg | cttgacattg | tagatatattt | cttattcatt | 360 |
| aatgtgctaa | aaattttgag | tttgggtcata | cagtc | | | 395 |

<210> 414
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|-----|
| <400> 414 | | | | | | |
| gttttctaaca | ttatagacac | tagtttttagg | ctcttggagg | ctagcagcaa | ttctcagagg | 60 |
| taatgcaagc | ttccccattt | cttcccgtag | tctgtgaaa | gaccagccac | ctccagaagc | 120 |
| ctacacatga | gtcttctcag | ccatactttc | tgtttttcct | aatgcctctc | agcagcgtat | 180 |
| tagaaaggcc | atgatcgayg | tacctgttac | cttcaggctt | tgcataaggt | gtatatgaaa | 240 |
| cataatgaat | ttcgtgttta | ggctcaggtc | ccatccccag | gttacctctt | tatcttggag | 300 |
| acacttctgg | tcccatacat | ttcagataag | agatattcaa | cctgtaccca | ccacgtaagg | 360 |
| agaggaatag | gtttttagaag | aggagtcagg | gaggca | | | 396 |

<210> 415
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 415
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 gtattatagg taaacacatg cgcattgtgt tatttctctt ttagacaaag gatgagatta 120
 ctactgttag ctacgttttt ttttccttac ttaacatctt tgcttttatt ttttagacat 180
 atttctaaga ctattaaaya ttagacttac gtaccccttc tgctattgtg aaatacatag 240
 tttactaaca gctaccatca agataaagcc tttattttaa taattaaact tcttagtgga 300
 aagctaagta agcacagttt atggattttg ggaatttttg ccttgcatth gtctgatatg 360
 gtaaaatatt gagtttggtt ttctcataat gttcac 396

<210> 416
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 416
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 accatthttct gttatttaga cactctttca cacttcctat tttcctcctg gggatgggtt 120
 gaatggatga cacaatacca tattataaaa gcactttaca aactgtaact tatgttataa 180
 atgtaattat taccttaarg ttttaccctg tttcagattt gagggaagt agttctttac 240
 aatacaaaaac aacttatttt aacttttttt gcatttcaaa gaatgatcaa tccacttcag 300
 gtgcagcatg gtttccaacc ctgacagcat ggaagaatca tttatttagc ttctaaaaat 360
 gtgcaggctg taccctagac cagccttggg gattag 396

<210> 417
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 417
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 cttctctctc tctctttttt ttttgagaca gcactcact atattgcca ggctgttctc 120
 aaactcctgg gctcaagtga tctcctgcc tcagcttctt gaggtagtag gactacaggc 180
 acatgctatg gcaataactt tttaaacatt gttttcaagg ctccccaggg gattccagtg 240
 tgggtcatgt ggtagagaac cactgacaca ggcaaacaaa ggatacataa agttgtctat 300
 ttaatgggta ggtgcaggta gtagataaga gtgtagccac ataaaccaca tgcttagtga 360
 acggttttgt tttgtgtgta tgtgagggat tagcat 396

<210> 418
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 418
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 gtgggattaa agacagacca cacattccaa aaggcaccgt gggagggtca gggggcgagg 120
 ttaggtctag gcttcagtgt cctgggagac tcagtcttca cagggtgaca gcgatcaaga 180
 gtgcagctta ggctgggtrc agtgggtcat gcctgtagtc ccagcacttt gggaggccga 240
 gacgggagga ttgcttgaag ccaggagttt gagaccagtc tgaccaacat ggcaaaacc 300
 catctctact aaaaatacaa aaatcaactg ggcattggtg cgtgtgcctg tagtcccagc 360
 tacttgagag gctgaggcaa gagaatcact tgaacc 396

<210> 419
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 419
 taaatgatca ttatgttcat attcacacat acaataatgt actcaagttt attgctaagg 60

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| taattcagaa | tctccttatt | ttgaagtgtg | catttgatat | acctgttttg | gaataactag | 120 |
| tttcttatct | ttgacagaaa | ataattttgt | tgttttgttt | ttactaaaaa | agcatggtga | 180 |
| aaaatggctc | catttctawg | agaggtaact | aaaatatcgc | aatttgctgg | gtgtcattaa | 240 |
| agtaactcac | aagggaaaaa | atgcaaattg | gtatctgctg | atggagtaaa | tctccgcaga | 300 |
| agtgatgacc | ctgaaaggat | caatatatta | aagccccctc | cagctggtca | ttccagattg | 360 |
| caacaataaa | gcattaagtg | ttaaaacctc | aaggca | | | 396 |

<210> 420

<211> 396

<212> DNA

<213> Homo sapiens

<400> 420

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| ctcatcaagc | ccacctttat | acttcatttc | tccagacttc | atgtccagac | tgtgggatga | 60 |
| acaagtgggt | ataagggttt | agaggctcct | gtaggactag | atggaaggca | aaaaaaggaa | 120 |
| ataaccttta | agcatgctct | cgattcctta | aatccccatc | gaaagtctta | aggatgtctt | 180 |
| ctcagtcata | cttattttgrc | aatattacct | aattttctcc | attagcccaa | gctcaggggt | 240 |
| ctttcttctt | ccatattcac | atgggtgcaa | tggttttctg | aaaggaaaac | agcattacta | 300 |
| gggcagtaac | atttaattaa | tcacaggtag | ttatcaaact | acaaaacagg | cattccagga | 360 |
| actgggtggt | tctgtttgta | aaattacact | ctcgtg | | | 396 |

<210> 421

<211> 396

<212> DNA

<213> Homo sapiens

<400> 421

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| taggactaga | tggaaggcaa | aaaaaggaaa | taacctttaa | gcatgctctc | gattccttaa | 60 |
| atccccatctg | aaagtcttaa | ggatgtcttc | tcagtcatac | ttatttgaca | atattaccta | 120 |
| attttctcca | ttagcccaag | ctcaggggtc | tttcttcttc | catattcaca | tgggtgcaat | 180 |
| gggtttctga | aaggaaaaya | gcattactag | ggcagtaaca | tttaattaat | cacaggtagt | 240 |
| tatcaaacta | caaaacaggc | attccaggaa | ctgggtgttt | ctgtttgtaa | aattacactc | 300 |
| tcgtgtacat | gctcccacta | aaatgtaagt | tcgttgagga | tggaggtttt | ggtctctttg | 360 |
| ctctgtgctg | taaccccaac | actgcagcag | ggcctg | | | 396 |

<210> 422

<211> 396

<212> DNA

<213> Homo sapiens

<400> 422

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| gctgcatagt | ctcacttagg | tgtggaatct | aaaaaagtca | aattaaaaaa | aaatgtcaag | 60 |
| cagagaatag | aatggtagtt | gccagggact | ctgggaagta | gcaggggtgg | gggtggaggg | 120 |
| gaggggatgg | gcagaagttg | gtcaaaagg | acaaagtctc | aggtagacag | gtgtaagttc | 180 |
| tggggatcta | ttgtacagmg | tggtagctgt | agttaatact | gtattgtgta | cttaaaaatt | 240 |
| gctcaccaaa | aatgtttctca | ccaaaaaaat | gatgtttgga | tatgttaaac | agtttgattt | 300 |
| aatcattttg | acgtgtgtgt | gtgtgtgtgt | gtgtgtgtgt | gtgtgtatac | atcaaaacat | 360 |
| cacattatat | accatataca | attaatatat | acaatt | | | 396 |

<210> 423

<211> 396

<212> DNA

<213> Homo sapiens

<400> 423

| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|-----|
| ggggtaaatg | ctgactgcct | gttctctgga | caggaatgga | gaagatgggtg | ctagcagggt | 60 |
| tgctgttcat | atgtagacat | tcattgcagtc | actctctttt | cagcacactt | cttacttctg | 120 |
| ccctgggttc | agttgctgac | tctgagccca | gaaaccttct | agggttctgt | taggtagatt | 180 |
| ggcttcacc | gtctttgcra | caaccacaga | aaattctaga | ctgttttctc | ttcgggcttc | 240 |
| attagccaac | ttgcttcagt | ctgtcttgca | tcttctaaat | atttatagat | ctctctcttt | 300 |
| tggttgagtg | gcagaaaatg | ctagttgacc | acccaatatt | caaattatcc | tgccctcctta | 360 |
| ataacagaat | atcattggat | gtgggtgggtg | aataat | | | 396 |

<210> 424
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 424
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 cttttcagca cacttcttac ttctgccctg gggttcagttg ctgactctga gccagaaaac 120
 cttctagggg tctgttaggt agattggctt ccaccgtctt tgcgacaacc acagaaaatt 180
 ctgactgtt ttctcttcrg gcttcattag tcaacttgct tcagtctgtc ttgcatcttc 240
 taaatattta tagatctctc tcttttggtg gagtggcaga aaatgctagt tgaccacca 300
 atattcaa atattcaa tctcctgcct ccttaataac agaatatcat tggatgtggt gggtaaataa 360
 tataccctaa ctttccttgc agagaggggt ggccaa 396

<210> 425
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 425
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 cttctgccct ggggttcagtt gctgactctg agcccagaaa ctttctaggg ttctgttagg 120
 tagattggct tccaccgtct ttgcgacaac cacagaaaat tctagactgt tttctcttcg 180
 ggcttcatta gtcaacttkc ttcagtctgt cttgcatctt ctaaataatt atagatctct 240
 ctcttttggt ggagtggcag aaaatgctag ttgaccacc aatattcaaa ttatcctgcc 300
 tccttaataa cagaatatca ttggatgtgg tgggtaaata atatacccta actttccttg 360
 cagagagggg tggccaatga gatggaaatg aaagtc 396

<210> 426
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 426
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 tgatttgtgt acattgattt tgtaacctaa cactactaaa ttcacttacc aaatctygga 120
 gatttttgag gattccttag gattttctag gtatgagatc atatcattgg tagaggtagt 180
 ttgagtttct cttttccart ttggatgccc tttatttctt tctcttgccg gattgctctg 240
 actagggtct ctagtactat gttgaataga aatggtgaaa agtgggcatc cttgtctcat 300
 tctaattttt aggggggaaat gctttcaact tttccccatt cattttgatg ttggctgtga 360
 gtttgtcata gatgattctt actattttga gatata 396

<210> 427
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 427
 tcttttgccc tgcctttctg cctttctgtc cttttaattt gcgggctttt ggcaaccaca 60
 gcacgggtct gggttctctag gagtttcttt tgtaggatca aaccgctagt tggctcttgg 120
 cctgtgtgata gggccctggg ctaacttatt gggaaaatgt tgctgtaacc cctgcccaga 180
 ggtgcctgtg acatgggcyg ccatcttctc ctcttccctt ggcttcagcc ccacctagaa 240
 acctgaacaa acattttcct tgacatttca taaagtgtca gtggctcctc atttagcaaa 300
 atacatccca gggaagttca aaagtgaata aaggccgtaa cttcttcttc ttctcagggg 360
 cctacagaaa atatgtggca cctcggcagc ctggcc 396

<210> 428
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 428
 catggatttt gttttccaag tggcaagatg gcgcctccac ctttggatct ctatttttagt 60

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|-----|
| tcctggcaga | aagaaaggaa | caggctaattg | gccctgatga | gtctaccccc | ttttaacagg | 120 |
| agaaaatttta | aaaaacaaaa | accatgaaac | cctttcccag | aggcaacaac | cagaattcca | 180 |
| tttatctttc | attgaccara | acagaccaca | tggctactgg | tgggtggcaat | ggagactggg | 240 |
| gagatgaata | tttttaaggt | ggcatattcc | agaagaacac | tgtgcaactga | ttgcattaat | 300 |
| gaacccatta | atgtgccaa | gggaggttta | cctatgagca | tgggcaaatt | agaaccct | 360 |
| cttgagctg | caggtgagcc | aatcccact | aaacag | | | 396 |

<210> 429

<211> 396

<212> DNA

<213> Homo sapiens

<400> 429

| | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|-----|
| tgggtggtggc | aatggagact | ggggagatga | atatttttaa | ggtggcatat | tccagaagaa | 60 |
| cactgtgcac | tgattgcatt | aatgaaccca | ttaatgtgcc | aaggggaggt | ttacctatga | 120 |
| gcatgggcaa | attagaaccc | actcttggag | ctgcagggtga | gccaatcca | cctaaacagt | 180 |
| gtggatgcta | caagatggrg | aagtaaattg | attctattcc | ataccctaac | ctctctccaa | 240 |
| gatgtattct | taaaatagaa | gaggggaagac | agaagaaaac | atccagaata | tatttttatt | 300 |
| gtcttttact | tcttcagtgc | attttagatc | agtgcctctc | aatctggcaa | ggggcatgca | 360 |
| ggaggatgtg | agttttatca | ggaaaactac | acaacc | | | 396 |

<210> 430

<211> 396

<212> DNA

<213> Homo sapiens

<400> 430

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgagccaatc | ccacctaaac | agtgtggatg | ctacaagatg | gggaagtaaa | ttgattctat | 60 |
| tccataccct | aacctctctc | caagatgtat | tcttaaaata | gaagagggaa | gacagaagaa | 120 |
| aacatccaga | atatattttt | attgtctttt | actcttcag | tgcattttag | atcagtgtct | 180 |
| ctcaatctgg | caaggggcrt | gcaggaggat | gtgagtttta | tcaggaaaac | tacacaaccc | 240 |
| cccaaccaca | atgctacccc | cactcctgtg | gaccttcttt | aagagagact | cactattata | 300 |
| gatggagttg | atacgatttt | aagagaggcc | atatattatt | tgctttctgt | cttgaaaaac | 360 |
| ttgtgatttt | tctgtattgt | gctactgcca | aagaga | | | 396 |

<210> 431

<211> 396

<212> DNA

<213> Homo sapiens

<400> 431

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| gggtgtcagt | gagcagagat | cacaccattg | cactccagcc | tgggtggcag | agcgagattc | 60 |
| tgtctaaaaa | acaacaccgt | atttggggca | tgtcgatact | aaaaaattat | tcattgtttg | 120 |
| tctgaaatta | aaattttaaat | tgggggccct | gtattttact | gggcaaccca | tttgcaatat | 180 |
| cagcaacaat | ctcttattsa | gaccactgat | taagtgtgca | aaatttgaat | ctctgaacag | 240 |
| tacctatgtc | cttgatatct | taaattaatg | agtgtcttag | acactcaaag | caggaggaag | 300 |
| cattatggca | gatgttttag | ccccagagat | gtccatgagc | acagcataga | gctcagagcc | 360 |
| ttctttatta | tttgcttcac | gacagagcaa | aggact | | | 396 |

<210> 432

<211> 396

<212> DNA

<213> Homo sapiens

<400> 432

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| catttgcaat | atcagcaaca | atctcttatt | cagaccactg | attaagtgtg | caaaatttga | 60 |
| atctctgaac | agtacctatg | tccttgatat | cttaaattaa | tgagtgtctt | agacactcaa | 120 |
| agcaggagga | agcattatgg | cagatgtttg | agccccagag | atgtccatga | gcacagcata | 180 |
| gagctcagag | ccttcttttr | tatttgcttc | acgacagagc | aaaggactgc | agcaggttga | 240 |
| ctgatataaa | agttttacca | tgtctcacag | caggcctttg | ctcaagtttc | cagtaaggat | 300 |
| attgtatcat | ttcttgccctg | cagtacttgt | aaatccactt | acactgcctg | ctgttgagtc | 360 |
| atttgtttcg | tcttgagtag | catgtcatcc | ttgttc | | | 396 |

<210> 433
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 433
 ttgcagttct cattgctggg gagtctaaac tggataaaaa caccactat ctccatcagg 60
 cttgcactag agcccagctc tagctggaga gaaagaagct aacccgcaca gacacaggac 120
 tgtaggcagg gagcatccgg gggatatttg gtcttggtc tgatgtgcct aaggccaact 180
 tctctctggc catgctggyg tgcattgagc cactaatctt cctttttgcc ttccattttc 240
 tccaatcctg acttagcaaa ggttgggcaa aagagactct gtgtgagttc gagcaaagcc 300
 tgagatgctg gattttccaa gatacgagaa ggggctgggg gctgggtgaa ctgggtgggtg 360
 aggaggaag gattaatttc ccaaggaggg gaaggg 396

<210> 434
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 434
 gagaaagaag ctaacccgca cagacacagg actgtaggca gggagcatcc ggggggtattt 60
 gggctcctggc tctgatgtgc ctaaggccaa cttctctctg gccatgctgg cgtgcatgag 120
 ctcactaatc ttcttttttg ccttccattt tctccaatcc tgacttagca aagggtgggc 180
 aaaagagact ctgtgtgart tcgagcaaag cctgagatgc tggattttcc aagatacgag 240
 aaggggctgg gggctgggtg aactggtggt ggaggaggga aggattaatt tccaaggag 300
 gggaaggggc caggacatca ggccccgggg actttgaaga gaggggtcgtg ggtaggaggt 360
 agatcaagtg gaggtagaca aaggtcagga aagagg 396

<210> 435
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 435
 catgcctcct acaaatttga cctgggcccc gggccatggt cgggtggtttt taagaaccga 60
 ggctcccaga agcagtattg ggcagctaga gtggccccag gatctatatc aaactctacc 120
 tgtttctgaa ccaaatttct tctagaattt tattccataa atctgaatta tgggtgcaga 180
 ctcttagcat acactaaakg aactctctgc cttgcattaa ataacaggag ttaccctctg 240
 aggtaactcc tagccctggc tcttttagaga acagatgccg aataggcatt aggggatgtg 300
 atggatgtgc taactttcaa aaaaaaaaaa aaaaaaaggc ctgagctgag tgctcagaga 360
 ttcacaaaaa gctgacagca tctctctgtt ccattg 396

<210> 436
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 436
 ctttgagacc tggcagcctg gctttgagaa ccgggcttta acttgtcaca tgactatggc 60
 caagttcctg gggctctcca agcttcactt cctctgtaaa aagggaata atataatacc 120
 tgtcttattg ggttttgtcc atggttagatg agacattggg tacaaagcac ttgggtcccgt 180
 gcctggcaca ttactgcrc ttaatgtatg atagttttct tattattcta ataaacaata 240
 tggcttttgg agtatagttc tgccacattg cagtggccag agtgaagggt gtgagtgcct 300
 tctggggccc tgggagtcaa ggttatccgc atgccctttc ttgcttgctc ctgagtgtgg 360
 ctgcctctat gtccacacca tgcagatgca acaggt 396

<210> 437
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 437
 acatgatcat ccccttgggc ttctggtttt ttttctttca ggaccttatt ttcaggcaag 60

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| tggcctttga | cctctaaggc | tgtcctttcc | tagctaccga | atccagcatt | caaagtgatg | 120 |
| gaaatatgta | tatatagtaa | tagtaaaata | tcagcactta | atggcctgat | aagaatgtca | 180 |
| ctgcaatgct | gagtttggrc | caacatttgc | ctgctcctgc | cattgagccc | gggctcccct | 240 |
| ccagagctga | gctgctgcaa | gggatctgag | taactagggc | tgtgtcagag | tggcgatgac | 300 |
| agccaccaca | tgctaaggaa | gagatcccca | aggacaagga | gaatcccacg | tggagctact | 360 |
| tgcttctttg | tcagtcttgt | ttttctttatt | tcacaa | | | 396 |

<210> 438
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 438 | | | | | | |
| ccgaatccag | cattcaaagt | gatggaaata | tgtatatata | gtaatagtaa | aatatcagca | 60 |
| cttaatggcc | tgataagaat | gtcactgcaa | tgtctagttt | ggaccaacat | ttgcctgctc | 120 |
| ctgccattga | gcccgggctc | ccctccagag | ctgagctgct | gcaagggatc | tgagtaacta | 180 |
| gggctgtgtc | agagtggcra | tgacagccac | cacatgctaa | ggaagagatc | cccaaggaca | 240 |
| aggagaatcc | cacgtggagc | tacttgcttc | tttgtcagtc | ttgtttttct | tatttcacaa | 300 |
| ccttctaata | cacaatctct | caacctctat | tgtagcttg | catttttcaa | tcgatgacac | 360 |
| agctttacct | ggctccatgc | tttgattgac | tctacc | | | 396 |

<210> 439
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 439 | | | | | | |
| tcttatttca | caacctttcta | aaacacaatc | tctcaacctc | tattgttagc | ttgcattttt | 60 |
| caatcatgag | cacagcttta | cctggctcca | tgtcttgatt | gactctacct | gccaacactg | 120 |
| caacaacagg | gaaagggaca | ccggcctcat | accattagat | ggtgtgtagc | ctgggcatga | 180 |
| ggataattaa | aaactcccwa | ggggatttta | acatgtaaca | cagtttgga | accattgatg | 240 |
| taagatcttc | ttactcaaca | tgtgtctcaa | ggagctgttg | tatcagctta | tcagaaatgt | 300 |
| agatcaggcc | gcacttggac | ctgtagaatc | agaatctgca | ttttatcaga | ttccgacatt | 360 |
| atttgtatga | acattagctt | ttgagaagtg | ttgctt | | | 396 |

<210> 440
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| <400> 440 | | | | | | |
| cttttgacac | caactacaag | tcaaggggtt | ccccaaacca | ccctgagttg | tgataattcg | 60 |
| ctgggagatc | tgacagaact | cactgaaggt | tgttatactc | atggttggtga | tctcttatag | 120 |
| ggaggggaata | cagattaaaa | tcagccaaag | gaagaagcac | acagcacaga | gtccaggaca | 180 |
| gtgcctgaca | tgagagccyt | acggtcctct | cccgtggagt | cacggacagc | gccactctcc | 240 |
| tggcattgat | gtgtgacaac | acacagggag | tgttccccac | cagggaaagcc | ttggtgtcca | 300 |
| gggtctttac | tgtggctctg | tcacatgagc | acagctgact | gcccagtcgg | ccgatctgtt | 360 |
| cccagactct | ccaccgctac | acatcactca | cagtcc | | | 396 |

<210> 441
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 441 | | | | | | |
| gtggctcaca | gaactcaggg | aaacacagct | accagtttat | tgcaaggac | atttttaaagg | 60 |
| ataaaagtag | gcagataaag | agatgcatag | ggcgaggtgt | ggaaaggtcc | ctagtgcagg | 120 |
| agcttctgtc | catgtggagc | gggggtgcac | caccctctca | gtacatgaat | gagttctcct | 180 |
| tcacctgcct | atcagcctyt | acatgttcag | ctccccaaac | cagtcctctt | gggtttttat | 240 |
| ggaagcttca | agacaccac | attctttccc | cagagtatag | ggcaagacct | tctctgggga | 300 |
| gggttttaag | accacagtc | agaaaggtgg | gggtgggtca | agattagagt | cctgccttga | 360 |
| cgggcaggtg | aaaggggtag | ggggagtagg | tgagaa | | | 396 |

<210> 442
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 442
 cgggggtgca ccaccctctc agtacatgaa tgagtctctc ttcacctgcc tatcagcctc 60
 tacatgttca gctccccaac ccagtcctct tgggttttta tggaaagcttc aagacaccca 120
 cattctttcc ccagagtata gggcaagacc ttctctgggg aggggtttta gaccacagt 180
 cagaaagggtg ggggtggggkc aagattagag tctgccttg acgggcaggt gaaaggggta 240
 gggggagtag gtgagaaaaa ttctgtttat ttttctttt tttttttgag acggagtttc 300
 actcttggtg cccagggtgg agtgcaatgg cacaatctca gctcactgca acctccgcct 360
 cccaggttta agcgattctc ctgcctcagc ctcccc 396

<210> 443
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 443
 atgagttctc cttcacctgc ctatcagcct ctacatgttc agtccccaa cccagtcctc 60
 ttgggttttt atggaagctt caagacaccc acattctttc cccagagtat agggcaagac 120
 cttctctggg gaggttttta agaccacag tcagaaagggt ggggtgggggt caagattaga 180
 gtcctgcctt gacgggcarg tgaaaggggt agggggagta ggtgagaaaa attctgttta 240
 tttttctttt ttttttttga gacggagttt cactcttggt gccaggggtg gagtgcaatg 300
 gcacaatctc agctcactgc aacctccgcc tcccagggtt aagcgattct cctgcctcag 360
 cctcccgagt agctgggatt acaggcgtgt gccacc 396

<210> 444
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 444
 tcttcattcc acaaagctca gtgtcaaaac atgggggttta caactggaagc tgaggtcaca 60
 tcagtagccg ggatcagggt cgccctagct gcccaatgca gctcccaggc ctctgtaaa 120
 accttgacct ttgaggtcat gacagccctc tcttgctatg ctcatagctg accactgaac 180
 tcttgacac tccctccsc aagttcacag agaattggg cacatgcctt acagtcttcc 240
 cttgatccaa actactgctt tcatcttgag tgacagcagc atcttttgga tgtcttgcc 300
 tgtctagctt tatttttttg tgttctgcca tcaagttgct acttctgttg ccatcgtgcc 360
 tgtcagcgca gtgcaggctg tggtgaaatc ccacga 396

<210> 445
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 445
 tatttttttg tgttctgcca tcaagttgct acttctgttg ccatcgtgcc tgcagcgca 60
 gtgcaggctg tggtgaaatc ccacgaactc aggcacaca ctgaccgggt ctgagtcctg 120
 tctcagttgt cagctagttg tgcaatgaag ggaaagggac ctacactttc caagcctcaa 180
 ttcactcatc tatggcatkg tgacaataat ggaggttgat ttaaagtcct ttgtaagaat 240
 taagagttat aatagacata aagtgctgta tctggtatac ctagaaaaa ttccataaaa 300
 gttagtaatt gttggtcatg taatgatgac tctctaggct aggatttcag cttcattgca 360
 tgcacatggt gcactcacag ggcgtgacct ctctct 396

<210> 446
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 446
 ggtataccta gaaaacattc cataaaagtt agtaattggt ggatcatgtaa tgatgactct 60

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| ctaggctagg | atttcagctt | cattgcatgc | acatgggtgca | ctcacagggc | gtgacctctc | 120 |
| tctgtctcag | taacctcatc | tgaggaccgg | gataatcata | ccgcttcaaa | gggatgtcat | 180 |
| aaagattaaa | taatatgtrt | aaggctgctt | gcatttagct | gcattcaaca | aatatttctg | 240 |
| tatctttctc | ctcatttctc | cttactttct | tgcttattat | ctgctctagg | tatagatttc | 300 |
| agagaactaa | gcttggttaca | atccttcata | aaataaccag | gttggttagg | gcatttccaa | 360 |
| gagtcaatac | tgtttagtga | ctattctctg | tttaaat | | | 396 |

<210> 447
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-----|
| <400> 447 | | | | | | |
| aaggetgctt | gcatttagct | gcattcaaca | aatatttctg | tatctttctc | ctcatttctc | 60 |
| cttactttct | tgcttattat | ctgctctagg | tatagatttc | agagaactaa | gcttggttaca | 120 |
| atccttcata | aaataaccag | gttggttagg | gcatttccaa | gagtcaatac | tgtttagtga | 180 |
| ctattctctg | tttaatctmt | tttgattgtc | caggggtcatc | ttttgctatg | tcatagggtg | 240 |
| ttggcttctt | ctagagaagt | gagacgatgg | acaagttcca | agtgagtga | gcgactgggtc | 300 |
| aggatattcc | gctgaaaaac | tcatgtcagt | tctaattcgt | gattgtaatt | caatcacagc | 360 |
| ctgagaacag | taggactgta | gttcaaattgc | tctgtt | | | 396 |

<210> 448
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 448 | | | | | | |
| cctgggttca | agcaattctc | ctgcctcagc | ctcccaagta | gctgggacta | caggcacatg | 60 |
| ccaccacgcc | cagataattt | tcgtatTTTT | agtagagacg | gggtttcccc | ttgttggtcca | 120 |
| gggtggctct | gatctcttga | cctcatgac | cgcccacctc | ggcctcccaa | agtgtggga | 180 |
| ttacaggcgt | gagccaccrc | gcccggcctc | tagaggataa | tttttaaagt | tgcttttgca | 240 |
| tttggaatat | gtgattggca | tttttttcta | atTTTtcta | atgatacgct | gtcggatgct | 300 |
| atggattact | taaaccctct | ggctacctag | aaagatcttt | aagtggttct | caacaagctt | 360 |
| catacgcaat | gtaaattgta | ttatctctca | ggatgt | | | 396 |

<210> 449
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 449 | | | | | | |
| tgtgattggc | atTTTTttct | aatTTTtcta | tatgatacgc | tgctggatgc | tatggattac | 60 |
| ttaaaccttc | tggttaccta | gaaagatctt | taagtgggtc | tcaacaagct | tcatacgcaa | 120 |
| tgtaaatgtg | attatctctc | aggatgtgtg | agaacatctg | tttttcttct | aatgcagtaa | 180 |
| acataataag | gtctcttgrg | atatctttta | aatagactta | atacaacatt | caggaatgat | 240 |
| aacaaaatat | aatcacagtt | gtaaggggaat | gtgagcattt | catattaata | acattggaac | 300 |
| cttatgttta | atacagtgtt | aaaagttgac | aaacatgtag | gagtcagaaa | attcaattaa | 360 |
| aattatcaca | gtaatatgaa | tttagccaca | tctgt | | | 396 |

<210> 450
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 450 | | | | | | |
| acttaaacc | tctggctacc | tagaaagatc | tttaagtgg | tctcaacaag | cttcatacgc | 60 |
| aatgtaaatt | gtattatctc | tcaggatgtg | tgagaacatc | tgTTTTtctt | ctaattgcagt | 120 |
| aaacatataa | gggtctcttg | ggatatcttt | taaatagact | taatacaaca | ttcaggaatg | 180 |
| atacaaaaa | ataatcacrg | ttgtaaggga | atgtgagcat | ttcatattaa | taacattgga | 240 |
| accttatgtt | taatacagtg | ttaaaagttg | acaacatgt | aggagtcaga | aaattcaatt | 300 |
| aaaattatca | cagtaatatg | aatttagcca | catcctgtgt | tagttatgaa | atccatttaa | 360 |
| caccacaaac | agtaatat | ttagccagtt | tattca | | | 396 |

<210> 451
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 451
 catttaacac cacaacacagt aatatttttta gccagtttat tcaaaaggaa aacaggaact 60
 aaaccacttt catgcaatat atactctgtt aatgtgggtca ggctaatttt gctgggggaa 120
 ggaacttaac ttttgaatat ttgaatgcc agtcatttaa tctgaatatc ctatttcctt 180
 gcatgttgca aaatttttkt caataaaagg cagaaaaaga aatctcttct ccattgctcat 240
 ccctaagaga atgggttggtc tgtaccctga gagcatttta tggaggggac aaccactttt 300
 ctaattttcc ttcccacttc tctgtgggca caaatgctct ttggttgaaa gagttgtaat 360
 tcagtcccaa gatgaggtgt ggttactgca tcccta 396

<210> 452
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 452
 tcaatccatg ctccacactg cagccagagt gctctacaat gcaaattccat ttgtgagact 60
 cctcctctta aaatcctcaa gtggcttctc tttgccccca ggatcatttt gaaactcctt 120
 aatggaagag gcatggccct ttgggatgtg gttccccaac cctcccaca tcatcttttc 180
 aatcagattt cccactaart ggaaattttt tcaggctctc aactttatgg tgactttctc 240
 ttgctcagga tctttgaaca tactgtttct tctttccttt tgtatttgcc aagacaacac 300
 ttcctctggt aagattttcc tgacatctc tataaaaaaa gattgagata gttgactacc 360
 caaatgttt cccattcatt ccaagctcta ttcaag 396

<210> 453
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 453
 aacacttcct ctggtaagat tttcctgaca tctctataa aaaaagattg agatagttga 60
 ctacccaaaa tgtttcccat tcattccaag ctctattcaa ggcagtaaag tgcccggctg 120
 acagattgca ttcctcatct tttctgaagc tagcaatggc catgcaacag cattctggcc 180
 aataagatag aagtcgaart tgaagggttg gatttccaag aaagctcgtt gaagacataa 240
 ttcctcattt cacttcttac tctttctctt tcttgcttcc taaaatgcgg tgcagatggc 300
 agacacttca aagctgtctc aggcaatcag gtgatgttaa ggcagaaacc agctttatga 360
 tgggtagaac aggaagaaag aaggcaccta tgttct 396

<210> 454
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 454
 cctacaaatc tcatgttgac attttatccc taatattgga ggcagggcct agtaggaggt 60
 gttttgggtca tagtgataaa tggcttggtg ccgttctcac agtaacgagt gagtttttat 120
 tctagtgggt cctgcaagaa ctgattgtta aaagagcttg gatccttcca cccctctctc 180
 actcttgctt cctctctcwc accttgtaat ctctacaagc tcttcacctc cccttctcct 240
 tttgccataa gtggaagatt tctgaggcct caccagaagc agatgttggt tccatgcttc 300
 ttgtacagcc tgcagaacca tgagccaaat caacttcttt tctttataat tatccagtct 360
 caggtattcc tttatagcaa cacaatgga ctaaga 396

<210> 455
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 455
 gttgtttcca gctttgaact attttgaatc ctaaaagact gccagttttg aatgagaccc 60

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cagaacaatg | aatgtaggct | ctgtatacaa | gttcaggctg | ctgggcaact | taggccttaa | 120 |
| gacacaactc | tgccacttag | gccttaagac | acaactgaca | tgatggtgct | taaagtggct | 180 |
| gtgatggaaa | aggaggctrt | ttggagcctt | tggagtgcct | ttataggtga | accccagcat | 240 |
| agcaccta | gatttggagc | aaagctgtgt | cattcccaa | agataactat | tcgccttttg | 300 |
| agaaacatct | tctagctact | atcaataata | aacacagaat | gcataccat | gggccaccgt | 360 |
| gttgtctttt | gacctgagtt | tccattgtga | acaaga | | | 396 |

<210> 456
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 456 | | | | | | |
| aactctgcca | cttaggcctt | aagacacaac | tgacatgatg | gtgcttaaag | tggctgtgat | 60 |
| ggaaaaggag | gctgttttga | gcctttggag | tgcttttata | ggtgaacccc | agcatagcac | 120 |
| ctaagtattt | ggagcaaagc | tgtgtcattc | cccaaagata | actattcgcc | ttttgagaaa | 180 |
| catcttctag | ctactatcra | taataaacac | agaatgcata | accatgggcc | accgtgttgt | 240 |
| cttttgacct | gagtttccat | tgtgaacaag | agtcatttga | tccaaggcag | aaagtgggt | 300 |
| gcacacagca | gtgttccatc | atcaaatgga | atatgagatt | gggcccaagt | aggtcctgca | 360 |
| gacacaaata | agttgcaaga | gcaagtagta | caggcg | | | 396 |

<210> 457
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 457 | | | | | | |
| gaaaaggagg | ctgtttggag | cctttggagt | gcctttatag | gtgaacccca | gcatagcacc | 60 |
| taatgatttg | gagcaaagct | gtgtcattcc | ccaaagataa | ctattcgctt | tttgagaaac | 120 |
| atcttctagc | tactatcaat | aataaacaca | gaatgcata | ccatgggcca | ccgtgttgtc | 180 |
| ttttgacctg | agtttccayt | gtgaacaaga | gtcatttgat | ccaaggcaga | aagttgggtg | 240 |
| cacacagcag | tgttccatca | tcaaatggaa | tatgagattg | ggcccaagta | ggtcctgcag | 300 |
| acacaaataa | gttgcaagag | caagtagtac | aggcgcttgg | cctggccagt | actgttycca | 360 |
| agttgactgc | ttcccctcag | tctgcatctg | tggctt | | | 396 |

<210> 458
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|-------------|------------|------------|-----|
| <400> 458 | | | | | | |
| cccaaagat | aactattcgc | cttttgagaa | acatcttcta | gctactatca | ataataaaca | 60 |
| cagaatgcat | caccatgggc | caccgtgttg | tcttttgacc | tgagtttcca | ttgtgaacaa | 120 |
| gagtcatttg | atccaaggca | gaaagttggg | tgacacacagc | agtgttccat | catcaaattg | 180 |
| aatatgagat | tgggcccarg | taggtcctgc | agacacaaat | aagttgcaag | agcaagtagt | 240 |
| acaggecgtt | ggcctggcca | gtactgttgc | caagttgact | gcttcccctc | agtctgcata | 300 |
| tgtggcttca | tggggagttt | cctatgacca | cttgatggag | gaaaaaacia | attggagcat | 360 |
| agtttatagt | gctggtacta | cccaaagttg | ctagct | | | 396 |

<210> 459
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|-------------|------------|-------------|------------|-----|
| <400> 459 | | | | | | |
| gtccgtgagt | tacagatcta | cacaaaatca | cagagagtgg | ttaatcgttt | agtctgatgg | 60 |
| tcagggactt | ccaagagaca | tgattagaaa | actggtgaca | aggagtccctg | gggaagaggc | 120 |
| atatggatac | ctctgaacac | acacaaaaca | tgagaatatg | tatcccatat | gaatgttaac | 180 |
| caaagagcag | ccacaacasa | agaggatttt | aaaatcagct | gaataagatg | attcattctg | 240 |
| acagcatcag | ctagtctctt | tcccagcca | ctgttgccca | gtgggcttac | atatatcatg | 300 |
| gccatggggg | cagggtctatg | tatggacaca | gcaacatgaa | tttccactca | tcaaggccaa | 360 |
| tttggctcca | gccattgctg | agtgtctcagc | ctgccca | | | 396 |

<210> 460
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 460
 acatgattag aaaactggtg acaaggagtc ctggggaaga ggcataatgga tacctctgaa 60
 cacacacaaa acatgagaat atgtatccca tatgaatggt aaccaaagag cagccacaac 120
 agaagaggat tttaaaatca gctgaataag atgattcatt ctgacagcat cagctagtct 180
 ctttccccag ccactgttrc ccagtgggct tacatatatc atggccatgg gggcagggct 240
 atgtatggac acagcaacat gaatttccac tcatcaaggc caatttggct ccagccattg 300
 ctgagtgtc agcctgccaa gatagaaatc tacgccaata tggcaccatt ccctgggcta 360
 gaaaaccaac tgggtgaagg ttgattacat tggacc 396

<210> 461
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 461
 gggaatacaa tgggtggttc actaaactga cagctgagtt tgccatctcc tcgtgccagt 60
 gaatacacia gcaaggaagg ggggttcctt ctacactagg gtgactgatc ctaattacca 120
 aggagaaatt ggactgccac ttcacaatga ggggtgaggag tatgtactct atgtgtctgt 180
 gattaatgtc aatagaaart gacaccaacc tagtacacag aggactgatc atgggtccagg 240
 cccttcaggga atgaagattt gagtaccag gcaaggaaact tggactcact gaggaggga 300
 tattccaagg agaataattt atctatgtcc atctatgtcc atctatatc catctgtgtt 360
 ccccttgga ttcctattca tgaacatggg gaattc 396

<210> 462
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 462
 tatagaatga gtagtgaag gtagtataa atgtaagtca aaaaccacac aaccaatttg 60
 agaaatgagg aaggtaatat tgttgaatat gtcttcttta tcttgatata aatgtatttg 120
 tgcatatatt aaccagttta tttattttat attatttttt gagatgagct ctcgccatgt 180
 tgcccaggct ggtcttgamc tcctgggctc aactgattct accatttagt cctccgagta 240
 gctgggacta caggcatgca ccaccatacc cagctgacca gttttttcct attcctctac 300
 ttaatttctc tactatacaa cataatatgt gttaaatggta gttaacttta tatctcagta 360
 ttaagtcaca agatatcaaa aagggaatgc gactta 396

<210> 463
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 463
 atgtcttctt tatcttgata taaatgtatt tgtgcatata ttaaccagtt tatttattta 60
 ttattatttt ttgagatgag ctctcgccat gttgcccagg ctggtcttga actcctgggc 120
 tcaactgatt ctaccattta gtctccogag tagctgggac tacaggcatg caccaccata 180
 cccagctgac cagtttttct ctatttctct acttaatttc tctactatac aacataatat 240
 gtgttaattg tagttaactt tataatctcag tattaagtca caagatatca aaaagggaat 300
 gcgacttagt tacaagcaga atgaatatca ctcaaagatg aataaagaga agagggttag 360
 tgcattttct gttggatgag agaaagtttc attggt 396

<210> 464
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 464
 gcagtggcgt gatcccagct cactgcaatc tctgcctcct ggggttcaagt gattctcctg 60

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| cctcagcctc | ccgaggggct | gggattgtag | gcgtagacca | ctatgcccat | ctaatttttg | 120 |
| tatttttagt | agagataggg | ttttgccatt | ttggccagac | tgtcttgaac | tcctgacctc | 180 |
| agggtgatctg | cctgcctcrg | cctcccacag | ttttgtgatt | ataggcatga | gccaccgtgc | 240 |
| ccggccttaa | cctttgtttt | cttacacaac | acactacgtg | atgttttcca | catgcatggg | 300 |
| tcatttgctt | catttacgta | caaatgcata | agcaatatac | tgtgtggtgt | gagtttgtga | 360 |
| tgggaaaagg | aagaagtttt | gcggatacta | cactgg | | | 396 |

<210> 465

<211> 396

<212> DNA

<213> Homo sapiens

<400> 465

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| gcccaggctg | ttctccaact | cctggactca | agccatcctc | tagcctcggc | cttccaaagt | 60 |
| gctgggacta | taggcgtgag | ccacggtgcc | aggcccttga | ccacattttt | aaccctctctg | 120 |
| aacctcagtt | tcactttctg | ggcaatggga | ggggggtaat | ttgtccctca | gagggttgca | 180 |
| ctgaggggca | aatgtgagsc | tctgggtaca | atgccagta | cagactaggt | ccccacgaca | 240 |
| cagccgctca | gcggctccgg | attctgggct | gctctggact | gcggccaggc | ggtcttctgc | 300 |
| gggaatccgg | gcaggcaggg | cgggctgcgc | tccctcccc | ggctctccc | gtgccccttg | 360 |
| tctttttgtt | ctgtctcagg | agctctctat | taagat | | | 396 |

<210> 466

<211> 396

<212> DNA

<213> Homo sapiens

<400> 466

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tttttgttct | gtctcagcag | ctctctatta | agatgaatgg | catttccaaa | ggcttcacct | 60 |
| ctgataagtg | ttcctctgca | gctgcagcca | gaatcttaat | gtgcgcgctg | taatttaatg | 120 |
| gccgtctcgg | ctattaacac | gctcttctcg | ggtgaagtgg | actccctcca | tccccgggcc | 180 |
| tctgcacgtg | ctctgcgcrc | tggctggggg | tgactccaag | gagctcagag | cggggtgccc | 240 |
| ggcacctctc | gccaggcgcc | tttcgacctt | ctaaagcgcg | aatggctgga | cttttctccc | 300 |
| atgtgtgggg | ccccagaagg | tgtggggccc | cagaaggtgt | ggggtccctg | cgttccacgg | 360 |
| agcccgaag | gtttccagtg | atggtggggg | ctgacc | | | 396 |

<210> 467

<211> 396

<212> DNA

<213> Homo sapiens

<400> 467

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| ggagcccga | aggtttccag | tgatggtggg | ggctgaccac | gttgggtccc | gtgggtgctg | 60 |
| ttttcatgtg | ccggcagatt | gggatgagtt | taaaagacag | aagcgtgtag | gatagagaaa | 120 |
| cttcttttaa | aactggaaat | tttaatctgg | ggattataac | tattggacag | tcaagtgcaa | 180 |
| gagtgaatac | acttctcast | ccctcctccc | aatttttatt | tgcgggatta | gtcagtcccc | 240 |
| ctctgccaca | tgataattgt | gagaactacc | aggggtcttca | ttctcctgcc | atctggttga | 300 |
| cctctccaag | aatggacacc | cgggcagcct | gggccaatga | ggctgtccta | agagttttaga | 360 |
| tgagagaagt | cagtctttga | caggtgatgg | aagctg | | | 396 |

<210> 468

<211> 396

<212> DNA

<213> Homo sapiens

<400> 468

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cagtgatggg | gggggctgac | cacgttggtc | cccgtgggtg | ctgttttcat | gtgccggcag | 60 |
| attgggatga | gtttaaaaga | cagaagcgtg | taggatagag | aaacttcttt | aaaaactgga | 120 |
| aattttaatc | tggggattat | aactattgga | cagtcaagtg | caagagtga | tacacttctc | 180 |
| actccctcct | cccaatttyt | atttgcgga | ttagtcagtc | cccctctgcc | acatgataat | 240 |
| tgtgagaact | accagggtct | tcattctcct | gccatctggt | tgacctctcc | aagaatggac | 300 |
| acccgggcag | cctgggcca | tgaggctgtc | ctaagagttt | agatgagaga | agtcagttct | 360 |
| tgacaggtga | tggaagctgt | aaaatgtaaa | actcca | | | 396 |

<210> 469
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 469
 taagagaagc tgagagagag cgagaggaga gattggaaga aagacagaga cagaggtaga 60
 gagaagggaa agagagagag aaagggacag aagagagaga aaaaagagg ggccgggagc 120
 ggtggctcac gcctgtaatc tcagcacttt gggaggccga ggcgggcaga tcacgaggtc 180
 aggagatcga gaccatccyg gctaacacgg tgaaccccc gtctctacta aaaaatataa 240
 aaaaaattag ccaggcgtgg tgggtgggtgc ctgtagtccc agctactgag gaggctgaga 300
 caggagaatg gcgtgaaccc gggaggcaga gcttgcaagt agctgagatc gcgccactgc 360
 actccagcct gggcaacaga gcaagactcc gtctca 396

<210> 470
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 470
 tccaccagca gcttttctga gtctccagct tgcagatggc aaaccatgaa acttcatggt 60
 gtccatgagc atgtgaacca atttctatta taaatctgca atatataat atgaggagac 120
 ttatttataat attgggttcag tttctctgga gagccttggc taatataaag tctatactct 180
 acaaagtgcc ctaggtackc agggagtacc caagtgtgtc atgaccagcc cgacagccct 240
 ggctgctggc ttccccgcac acaactctgc acgctgcctt catcagcctt tctctctcag 300
 ctgaaccgag ggcattgaag cgggcctctg gcaactgtacc tatgaggagg caatatcttc 360
 ccctacactg acctcttccg tgccgagatg cagccc 396

<210> 471
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 471
 gcctctggca ctgtacctat gagggagcaa tatcttcccc tacactgacc tcttccgtgc 60
 cgagatgcag ccctccctgc tgccactagt tacagtggc catgttccct ttcaaagtga 120
 agttttgata aaagcacctc ttaaccaatg ccaaataagct aagtctggga caaagattgc 180
 aggtattttg cattttccwt gtaacctcag agggattgcc attcacactg atctgagctg 240
 cagaatacca ggcagccacc tcacccacc agcagggtcca ctcttatact ttctcagaaa 300
 gcacagccac tctactctta ttcagttgaa aagaatttcc aggaagggtgt ttctgcgatt 360
 gcctcagaaa agtcagttcc ctttggggaat ttccct 396

<210> 472
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 472
 tacttttctc tgaagaaatg gagatatcag ctgtccctcc ccaactgccat ttattccttc 60
 cttcattcaa accttatgtg gctgctactt accgtgtgtt aagtgttcac ttttttctt 120
 ggaattcaaa aaaagaagga cagtatttgg ggcacagatc ttttgggtgt ctatacattt 180
 ttttaaagtt tcattttaya tttgtgtgtg cgtgtgtgtg tgtgtgtgag acagtcttgc 240
 tctgttgccc aggctggagt gcagtggcat aatcattggc tcactgtagc ctcaaagtcc 300
 tgggcccagg caatcttccc acctcagcca cccaaaatgc tgggggtaca gggttatgcc 360
 actctgtctg acctgaaagt tttgggttta ctttcc 396

<210> 473
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 473
 gcataatcat tggctcactg tagcctcaaa gtccctgggccc caagcaatct tcccacctca 60

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| gccacccaaa | atgctggggg | tacagggtta | tgccactctg | tctgacctga | aagttttggg | 120 |
| tttactttcc | cttcttttct | tttgctgaag | tcagagatga | tggcagcttc | cagattctct | 180 |
| ggtgcctgtg | ctgggctcrt | gctgggtcatg | gtcttgggtc | caggattcat | tctggagact | 240 |
| ctcaggggaag | tttcccatga | caaggaaatg | taggagagtg | tgctggcttt | gcgtgctcct | 300 |
| ctgccaagcc | ctgcttctcc | tggtggggaca | cactgaacca | cagccagggc | attttggtgg | 360 |
| ttagttaaaa | aaaaaaaaaa | aaaaaaaaaa | aggaag | | | 396 |

<210> 474
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 474 | | | | | | |
| cttcagaaat | tgtaatgatg | aaagagtgc | agctctcact | tccccttcct | gtacagggca | 60 |
| ggttgtgcag | ctggaggcag | agcagtcctc | tctggggagc | ctgaagcaaa | catggatcaa | 120 |
| gaaactgtag | gcaatgttgt | cctgttggcc | atcgtcacc | tcacagcgt | ggtccagaat | 180 |
| ggtaaggaaa | gcccttcamt | cagggaagaa | cagaagggga | gattttcttt | gatggttgtt | 240 |
| tggagtcag | gcttaaaca | ttgtgtctgt | gtgtgcgcac | gcacaaacac | ttttacctta | 300 |
| tctttatttt | cttcttttta | tttgaatgta | tagggttgtg | tgtatttctg | tgtaaatttg | 360 |
| gggttttctt | cctcttagtc | tttcactttt | gtgggtg | | | 396 |

<210> 475
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| <400> 475 | | | | | | |
| ttttctaaca | tctgcagtgc | aattgaagtt | accagtcac | tgcaagtctaa | aaagaaagtg | 60 |
| attttgggag | gtgcgtagaa | aaaatcatct | tattattttt | cctctatatt | acttttttct | 120 |
| ttttttctcc | tgaagaaact | tttttttttg | gtgatacctt | ctttttctct | agcacgtata | 180 |
| attttgggaag | catttttctt | atgcagtgtg | tacttcagaa | agagagagag | agagaggaaa | 240 |
| attgtcctgt | tcagcgtttg | catttccatt | attcctgcta | ttagttaaaa | acaacaacaa | 300 |
| caacaaaaaa | caagcaggat | acctagatct | ggaaaaggga | gaattgtgta | gagctgtctt | 360 |
| cctaaagttc | tgagttaggg | ctgcctcaga | ccactt | | | 396 |

<210> 476
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 476 | | | | | | |
| ttttggaagc | atttttcata | tgcaagtgtat | acttcagaaa | gagagagaga | gagaggaaaa | 60 |
| ttgtcctgtt | cagcgtttgc | atttccatta | ttcctgctat | tagttaaaaa | caacaacaac | 120 |
| aacaaaaaac | aagcaggata | cctagatctg | gaaaaggagg | aattgtgtag | agctgtcttc | 180 |
| ctaaagttct | gagttaggrc | tgccctcagac | cactttcata | actatctcca | gtggctttgt | 240 |
| gttttatatt | tattaagata | gagaaaaaaa | gagtaattac | taagggcagc | tgctgtagct | 300 |
| ttatggtgat | tactgaacat | tgacatgctg | tcacgttttt | ggaactttga | gtatttaate | 360 |
| actttgggat | attctatttt | cccccatctt | gagtgt | | | 396 |

<210> 477
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 477 | | | | | | |
| ggaactttga | gtatttaate | actttgggat | attctatttt | cccccatctt | gagtgtggac | 60 |
| agatgctgg | gatgtagcct | tctgggcaca | gagcaagcct | ccccctcagc | ctctgcacca | 120 |
| gaaaggctca | gcttcacaca | ctccaagtat | gttttctaca | agaactacac | tttgtggctt | 180 |
| tctgacccaa | acatttttrt | actaaattac | acacaacaaa | gttgtagctc | agagagggaa | 240 |
| caaatggctt | atttaggcca | ccattttctt | gagccattat | gatttcacac | agggctccct | 300 |
| tgccctgtga | aattggcaag | gattccatta | ttcaaccgcg | atacatgtac | agagaccctg | 360 |
| ctctggccca | gatagtattc | tggttacagg | cggata | | | 396 |

<210> 478
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 478
 tgtggacaga tgctggtgat gtagccttct gggcacagag caagcctccc cctcagcctc 60
 tgcaccagaa aggctcagct tcacacactc caagtatggt ttctacaaga actacacttt 120
 gtggcctttct gacccaaaca tttttatact aaattacaca caacaaagtt gtagctcaga 180
 gaggggaacaa atggcttayt taggccacca ttttcttgag ccattatgat ttcacacagg 240
 gctcccttgg ccctgtaaat tggcaaggat tccattattc aaccgcgata catgtacaga 300
 gaccctgctc tggcccagat agtattctgg gtacaggcgg atagagcagg aaacaaaaca 360
 gctacagtga tggacaggtc agcctgcagc aatgcc 396

<210> 479
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 479
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 taggccacca ttttcttgag ccattatgat ttcacacagg gctcccttgg ccctgtaaat 120
 tggcaaggat tccattattc aaccgcgata catgtacaga gaccctgctc tggcccagat 180
 agtattctgg gtacaggcrg atagagcagg aaacaaaaca gctacagtga tggacaggtc 240
 agcctgcagc aatgcctgca gtctctgcaa aggtagctgt atgggtgggc aggtggctag 300
 cacttattca gctctggaag gatctccctc ctggcctctc ccctgacacc catcaataaa 360
 actgaggagc atcggtggac aggggacctt gtgccc 396

<210> 480
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 480
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 tccattattc aaccgcgata catgtacaga gaccctgctc tggcccagat agtattctgg 120
 gtacaggcgg atagagcagg aaacaaaaca gctacagtga tggacaggtc agcctgcagc 180
 aatgcctgca gtctctgcra aggtagctgt atgggtgggc aggtggctag cacttattca 240
 gctctggaag gatctccctc ctggcctctc ccctgacacc catcaataaa actgaggagc 300
 atcggtggac aggggacctt gtgccccctc cctgcctgtg cagttggggc tgaaccagc 360
 tacgaagttt gagctcactc tctccagctc cctctc 396

<210> 481
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 481
 gacaggtcag cctgcagcaa tgccctgcagt ctctgcaaag gtagctgtat ggggtgggcag 60
 gtggctagca cttattcagc tctggaagga tctccctctc ggctctctcc ctgacaccca 120
 tcaataaaaac tgaggagcat cgggtggacag gggaccttgt gccccctccc tgcctgtgca 180
 gttggggctg aaccagcya cgaagtttga gctcactctc tccagctccc tctcaattca 240
 gagctgaact gtgggaagct tcagagctct ctgtttcaag gacaggttct cctcacctct 300
 cctaattggag gtgcaccagg gaactggccc tgctctgccc agggctttct cctggacttt 360
 gccatcatgg tctagcaaac cctgttcaga ttgagg 396

<210> 482
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 482
 cactctctcc agctccctct caattcagag ctgaactgtg ggaagcttca gagctctctg 60

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| tttcaaggac | aggttctcct | cacctctcct | aatggagggtg | caccagggaa | ctggccctgc | 120 |
| tctgcccagg | gctttctcct | ggactttgcc | atcatgggtct | agcaaaccct | gttcagattg | 180 |
| agggtgagtgg | tgagatttyg | aattcttttt | gacagatagg | attaagtctt | cttctgtggg | 240 |
| acaagtggga | ggtagaggta | agattaaaga | tggccaaatg | tctgagtcct | gacagccaca | 300 |
| atatggagat | ctagactttt | tacagaccac | agggcacagg | ggcctcacta | acagagtcc | 360 |
| cggaagtgat | gagtgtgctg | ggggcttctt | ggttga | | | 396 |

<210> 483
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 483 | | | | | | |
| taggattaag | tcttcttctg | tgggacaagt | gggaggtaga | ggtaagatta | aagatggcca | 60 |
| aatgtctgag | tcttgacagc | cacaatatgg | agatctagac | tttttacaga | ccacagggca | 120 |
| caggggcctc | actaacagag | ttcccgggaag | tgatgagtgt | gctgggggct | tcctggttga | 180 |
| agagacacta | gaatggacsa | gctgggagct | aatttttttg | gctggagtgt | gatggcctgc | 240 |
| acatcactgc | ctctgtccct | ccattgtcac | agctgcccct | taggagccag | ctgaggcaat | 300 |
| ttgtggtcag | agtgaacttg | cacagttgtc | ctgcctgtgt | tcaggaaggg | agtttctgtg | 360 |
| gtccctttga | aaccacagaa | gagccctctg | tatagc | | | 396 |

<210> 484
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|-------------|-------------|------------|------------|-----|
| <400> 484 | | | | | | |
| agttgtcctg | cctgtgttca | ggaagggagt | ttctgtggtc | cctttgaaac | cacagaagag | 60 |
| cccctcgtat | agctctcaat | ggaggggggca | aaacattcaa | ataactcagg | agataacaca | 120 |
| actatttggt | tttaactgtg | agtttttagg | caatcacaaa | gatccagatg | tatgtccaag | 180 |
| cctctctttg | caattctawt | taacctcaat | gttgcaacca | tagacctacc | ttacagagtt | 240 |
| caaaaaaata | tgcaaaaacc | ctgcctttct | tcttcctcat | accccaaat | gccattctga | 300 |
| acatttctctg | ttagttaaaa | aaagatttcc | atgggtgttac | caggcactgt | acacagtctg | 360 |
| tgtcccaaga | caaggaggta | cagttccaca | tgcgcc | | | 396 |

<210> 485
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| <400> 485 | | | | | | |
| agggggcaca | acattcaaat | aactcaggag | ataacacaac | tatttgTTTT | taactgtgag | 60 |
| tttttaggca | atcacaaaga | tccagatgta | tgtccaagcc | tctctttgca | attctaatta | 120 |
| acctcaatgt | tgcaaccata | gacctacctt | acagagttca | aaaaaatatg | caaaaaccct | 180 |
| gcctttcttc | ttcctcatwc | cccaaaatgc | cattctgaac | atttctctgt | agttaaaaaa | 240 |
| agatttccat | ggtgttacca | ggcactgtac | acagtctgtg | tcccaagaca | aggaggtaca | 300 |
| gttccacatg | cgcccatgac | tgggttgggc | tctgcactct | ctctataactt | tgagagcctg | 360 |
| attttctgtg | attgggcaga | gctggcccac | ctgggtg | | | 396 |

<210> 486
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 486 | | | | | | |
| tctgcactct | ctctataactt | tgagagcctg | attttctgtg | attgggcaga | gctggcccac | 60 |
| ctggtgcaat | gtcctcctct | gcctttcaaa | catgttttag | tcatcaagat | cttcaaattt | 120 |
| gtaacccttt | ccagcttgat | ccagcagaat | gcagattttg | aaaaacagaa | cgagttaaaa | 180 |
| atacatgatt | ctaagaaayc | tggaccagaa | ctatcaaaac | ttggtttccc | agagaatata | 240 |
| gcaaatgggc | tcattggcca | atactatgac | attggctttt | gagaaaagaa | aggctttatt | 300 |
| gcaaggctgg | ccagcaagga | gacaggagtt | gggctcaaat | ctgtctcccc | agtttggggc | 360 |
| ttagggaag | ttttaattac | acagacgcac | ttctta | | | 396 |

<210> 487
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 487
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 acatgattct aagaaacctg gaccagaact atcaaaactt ggtttcccag agaataatagc 120
 aaatgggctc attggccaat actatgacat tggcttttga gaaaagaaaag gctttattgc 180
 aaggctggcc agcaaggara caggagttag gctcaaactc gtctccccag tttggggctt 240
 agggcaagtt ttaattacac agacgcattt cttatgagta gcaggcagag agcctccaac 300
 ttcttctgcc taggtaccag cagcttagac atgatgcaaa cctgggaagc acatactgta 360
 tttggagaaa gtgattggga agaaatgtga gctgag 396

<210> 488
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 488
 tacatgattc taagaaacct ggaccagaac tatcaaaact tggtttccca gagaatatag 60
 caaatgggct cattggccaa tactatgaca ttggcttttg agaaaagaaa ggctttattg 120
 caaggctggc cagcaaggag acaggagttag ggctcaaact tgtctcccca gtttggggct 180
 tagggcaagt ttttaattaya cagacgcatt tcttatgagt agcaggcaga gaggctccaa 240
 cttcttctgc ctaggtagca gcagcttaga catgatgcaa acctgggaag cacatactgt 300
 atttggagaa agtgattggg aagaaatgtg agctgagggg aggggctcag tgcccctgag 360
 ctacacttag tgatggcaga ggaaggatgt cctccc 396

<210> 489
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 489
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 cctccaactt cttctgccta ggtaccagca gcttagacat gatgcaaacc tgggaagcac 120
 atactgtatt tggagaaagt gattgggaag aaatgtgagc tgaggggagg ggctcagtgc 180
 ccctgagcta cacttagtra tggcagagga aggatgtcct cccgcaggag gctgttccac 240
 atctgctctg gttgtagggg gagctggcag gcattagcag cggcctcttt cccccaagag 300
 aggcagcctc ctccaagttt tggcgacatt atggccctgc aatcataagg gtttgtgagc 360
 atagtgttaa ggagggaaat ggagctgctg ttacta 396

<210> 490
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 490
 cctcctgagt agctaggact acaagcatgt gccaccacgc ccagctaatt tttgtatttt 60
 tagtaaggac agggtttcac catgttggcc aggttggcct ccaactcctg acctcaagtc 120
 atcctcctgc ctgcacctcc caaagtgtg ggattacagg catgaaacca gcctagaaat 180
 acatactatt atttattcyt gttttacaga taagcaaagt gagtcatgga gaatttgggt 240
 gaaagtccca aggtcaggag tcgtgaagct gggattaaaa cctaatacat tgactttaga 300
 gagtagacac ttgctccatg catattgcct ccaattcatt cattcaagca ctccctgctc 360
 aagaagttct ttcttatgtt gagctgaaat ctgcag 396

<210> 491
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 491
 tcactgact ttagagagta gacacttgct ccatgcatat tgcctccaat tcattcattc 60

| | | | | | | |
|------------|------------|-------------|------------|------------|-------------|-----|
| aagcactccc | tgctcaagaa | gttcttttctt | atgttgagct | gaaatctgca | gccctatgcg | 120 |
| ttttaccag | cagtcctggt | gctgttccct | aaaatcactt | agactgtgcc | tgctctttct | 180 |
| gtgtttacag | tgtcagctrt | aatatcccc | tcttcggcct | aacgtttctg | aagtccttctg | 240 |
| ccactgggtc | tcctctcctc | ttcctgtgtt | ctttctaaga | acacctatgc | agataggtgt | 300 |
| cttctgtaca | gggaagctgt | tcctgagatc | cgggcatcga | ctctgttaga | ataatctacg | 360 |
| tatgagttat | ttttttgaga | actatgtgtc | attgct | | | 396 |

<210> 492

<211> 396

<212> DNA

<213> Homo sapiens

<400> 492

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| atgttgagct | gaaatctgca | gccctatgcg | ttttaccag | cagtcctggt | gctgttccct | 60 |
| aaaatcactt | agactgtgcc | tgctctttct | gtgtttacag | tgtcagctgt | aatatcccc | 120 |
| tcttcggcct | aacgtttctg | aagtccttctg | ccactgggtc | tcctctcctc | ttcctgtgtt | 180 |
| ctttctaaga | acacctatrc | agataggtgt | cttctgtaca | gggaagctgt | tcctgagatc | 240 |
| cgggcatcga | ctctgttaga | ataatctacg | tatgagttat | ttttttgaga | actatgtgtc | 300 |
| attgctgact | catattaact | ctgtgggttaa | ctaaaatctc | aagatctctt | tatgtttgtt | 360 |
| gagaaactta | tttaacttct | ctggccctcc | gtttcc | | | 396 |

<210> 493

<211> 396

<212> DNA

<213> Homo sapiens

<400> 493

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|-----|
| gtcctgggtgc | tggtccctaa | aatcacttag | actgtgcctg | ctctttctgt | gtttacagtg | 60 |
| tcagctgtaa | tatccccctc | ttcggcctaa | cgtttctgaa | gtcccttgcc | actgggtctc | 120 |
| ctctctctct | cctgtgttct | ttctaagaac | acctatgcag | ataggtgtct | tctgtacagg | 180 |
| gaagctgttc | ctgagatcyg | ggcatcgact | ctgttagaat | aatctacyta | tgagttattt | 240 |
| ttttgagaac | tatgtgtcat | tgctgactca | tattaactct | gtgggttaact | aaaatctcaa | 300 |
| gatctcttta | tgtttgttga | gaaacttatt | taacttctct | ggccctccgt | ttccttcact | 360 |
| gagcagtgga | gtgattgata | acctccacct | gtgggt | | | 396 |

<210> 494

<211> 396

<212> DNA

<213> Homo sapiens

<400> 494

| | | | | | | |
|-------------|-------------|------------|------------|-------------|------------|-----|
| cacctatgca | gataggtgtc | ttctgtacag | ggaagctgtt | cctgagatcc | gggcatcgac | 60 |
| tctgttagaa | taatctacgt | atgagttatt | tttttgagaa | ctatgtgtca | ttgtgactc | 120 |
| atattaactc | tggtggttaac | taaaatctca | agatctcttt | atgtttgttg | agaaacttat | 180 |
| tttaacttctc | tgccctcmg | tttccctcac | tgagcagtgg | agtgtattgat | aacctccacc | 240 |
| tgtggttgct | gaaggtcttg | cacaagatga | tatagttaaa | gtagctagca | gtgcccacgt | 300 |
| acggcggtatg | cctcacaacg | gtttgcagcc | atctctctat | ctgtgtcttt | gtctctctct | 360 |
| cacactgggtt | ttggcttact | gttagcagct | agccga | | | 396 |

<210> 495

<211> 396

<212> DNA

<213> Homo sapiens

<400> 495

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|-----|
| tctgtgggtta | actaaaatct | caagatctct | ttatgtttgt | tgagaaactt | atttaacttc | 60 |
| tctggccctc | cgtttccctc | actgagcagt | ggagtgttg | ataacctcca | cctgtgggtg | 120 |
| ctgaaggtct | tgacacaagat | gatatatgtta | aagtagctag | cagtgccac | gtacggcgga | 180 |
| tgccctcaca | cggtttgcmg | ccatctctct | atctgtgtct | ttgtctctct | ctcacactgg | 240 |
| ttttggctta | ctgttagcag | ctagccgaga | taagtgtgtt | tatggctctt | gcatgtattg | 300 |
| tttctgtagc | atactggagg | attacaagag | gttggggagt | gagggggcgg | tgaggagtag | 360 |
| acaaaggcag | ccaactcttc | caagtttagc | ttagaa | | | 396 |

<210> 496
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 496
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 tagcagtgcc cacgtacggc ggatgcctca caacgggttg cagccatctc tctatctgtg 120
 tctttgtctc tctctcacac tggttttggc ttactgttag cagctagccg agataagtgt 180
 gtttatggtc tttgcatgya ttgtttctgt agcatactgg aggattacaa gaggttgggg 240
 agtgaggggg cggtagggag tagacaaagg cagccaactc ttccaagttt agcttagaag 300
 gaaggagcgg taaaccctag ttgaatgttg gactgaagca ggtttgtttt tgttttgttt 360
 aaaggatagg gaagatctgt gcgtgtttcc aggata 396

<210> 497
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 497
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 aaaggaaggg gctcggttct ctgagcaagg agggaaagaa gagaggcaga tgcagagaag 120
 tacggcacat cgtgctgctg gttgtagaaa taacctctga cttttaataa agtcatccct 180
 cggatccctt gggggatttg ttctatgacc tccctcggat gccaaaattc gtggatgctc 240
 aagtccttga tataaaatgg catagtattt gcatttaacc tacacacatc ctccatatcc 300
 tttttttttt tttttttttt tttttttttt tttttgtgag atggagtctt gctctgtcgc 360
 cctggctgga gtacagtggc tcgatcttgg ctcact 396

<210> 498
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 498
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 gtaacaagaa aaaaaatctg tacatgttca gtccagacaa atgggtttct gttttttttt 120
 ttttttttta atatttttgg tcagtggttg gttgactcca ggaatgcaga acccgcat 180
 atagaagggtt gattatgcrt tcagaggcag ggaataccat cttgggttcc agaaagaaaa 240
 tgatcagcat tttctgtcat actctggtaa aaacagatct tttgaatgga caggtgtatt 300
 aaaccctgtg gagctggctg ggctggcgg ctcacgcctg taatcccagc actttgggag 360
 gctgaggcag gtggatcacg aggtcaggag ttcgag 396

<210> 499
 <211> 396
 <212> DNA
 <213> Homo sapiens

<400> 499
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 agttgcagcg ttcttaccta cagagtggga acagtactac ccattgcaca gagggtgtgc 120
 aaagctctgt gacggaatac atggcaagtg cccaccacat tgctgggat gaggtgggcc 180
 cttcctttac gtaagagarc cctacagata cactcaaagt gggcacattc ctacagaagg 240
 agtggtattt gtgtagaaaa gaaaaacatg aaaggctttt attcctatac acaataaagc 300
 acccctttta tgtctttttg aggaggataa tatgaaattg atgaaaagga accctgtggg 360
 tggatccctg acaatcacat gtatcccttt tttcac 396

<210> 500
 <211> 396
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (227)..(326)

<223> n = A,T,C or G

<400> 500

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aaaacatgaa aggcctttat tcctatacac aataaagcac ccctttaatg tctttttgag 120
gaggataata tgaaattgat gaaaaggagc cctgtggttg gatccctgac aatcacatgt 180
atcccttttt tcaactcttra aaaaggagta aaggaataaa atagaannnn nnnnnnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnatgt ttcagtcact gtataataac tagccagatt 360
ttttgttggt gttgttttgt ttttgttttt gttttt 396
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<210> 501

<211> 396

<212> DNA

<213> Homo sapiens

<400> 501

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cttagatgtc attccctcaa ggaatccttc tgtgactcaa catggaatta agttgcctcc 180
tttgaccctg aaagcacctt gtactcaatc tcatcttggc atgactcact ttgctgtgtg 240
gaatgtctgc tttccttggt tgtctattcc tttagactgt aagatcctag aaagtggggg 300
ccgtgccttg ctcatgactg tgtttctaac accaaacaca gtgttcagta gagagcagct 360
gctgagtacg tttctgctaa atgacagttg atggag 396
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<210> 502

<211> 396

<212> DNA

<213> Homo sapiens

<400> 502

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actcaatctc atcttggcat gactcacttt gctgtgtgga atgtctgctt tccttggttg 120
tctattcctt tagactgtaa gatcctagaa agtggggggc gtgccttgct catgactgtg 180
tttctaacac caaacacart gttcagtaga gagcagctgc tgagtacgtt tctgctaaat 240
gacagttgat ggaggacatt taggggttgc tggagggtcaa gtcaaggagg catttaacat 300
tctagtaaaa caaggaagta acaggctcct gaacatgccc acaatgaacc agatgcaaac 360
ctttccctt ggcaggattc tttgcccata aagtgg 396
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<210> 503

<211> 396

<212> DNA

<213> Homo sapiens

<400> 503

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aaagcaccat gtactcaatc tcatcttggc atgactcact ttgctgtgtg gaatgtctgc 60
tttccttggt tgtctattcc tttagactgt aagatcctag aaagtggggg ccgtgccttg 120
ctcatgactg tgtttctaac accaaacaca gtgttcagta gagagcagct gctgagtacg 180
tttctgctaa atgacagtkg atggaggaca tttagggttg cttggagggtc aagtcaagga 240
ggcatttaac attctagttaa aacaaggaag taacaggctc ctgaacatgc ccacaatgaa 300
ccagatgcaa accttttccc ttggcaggat tctttgcccc taaagtggag cacgaaagca 360
ggaccagaa tgggaggagc ttccagagga ccggaa 396
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<210> 504

<211> 396

<212> DNA

<213> Homo sapiens

<400> 504

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gcatttaaca ttctagtaaa acaaggaagt aacaggctcc tgaacatgcc cacaatgaac 120
cagatgcaaa ccttttccct ttggcaggatt ctttgcccat aaagtggagc acgaaagcag 180
```

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gaccagaat | gggaggagyt | tccagaggac | cggaacactt | gcctttgagc | gggtctacac | 240 |
| tgccaagtga | gtcctaacc | tgatgttgct | aataagtggg | ggcatgggca | ggggggcctc | 300 |
| cttctaggag | tgatgaccac | ccttaatacc | acatgtctgt | ctgagccaag | tttctgagcg | 360 |
| ccagggaggt | gaggaaggtt | ggacttcacc | agagag | | | 396 |

<210> 505
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 505 | | | | | | |
| ggcatttaac | attctagtaa | aacaaggaag | taacaggctc | ctgaacatgc | ccacaatgaa | 60 |
| ccagatgcaa | accttttccc | ttggcaggat | tctttgccc | taaagtggag | cacgaaagca | 120 |
| ggacccagaa | tgggaggagc | ttocagagga | ccggaacact | tgcctttgag | cgggtctaca | 180 |
| ctgccaagtg | agtcctaamc | ctgatgttgc | taataagtgg | gggcatgggc | aggggggcct | 240 |
| ccttctagga | gtgatgacca | cccttaatac | cacatgtctg | tctgagccaa | gtttctgagc | 300 |
| gccagggagg | tgaggaaggt | tggacttcac | cagagaggct | ttgtggacac | cctttatcat | 360 |
| cttagtgagt | gctagtgtca | aaacaaaggg | agtggg | | | 396 |

<210> 506
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 506 | | | | | | |
| gctcctgaac | atgcccacaa | tgaaccagat | gcaaaccctt | tcccttggca | ggattccttg | 60 |
| cccataaagt | ggagcacgaa | agcaggaccc | agaatgggag | gagcttcag | aggaccgga | 120 |
| cacttgccct | tgagcgggtc | tacactgcca | agtgagtcct | aaccctgatg | ttgctaataa | 180 |
| gtgggggcat | gggcaggggrg | gcctccttct | aggagtgatg | accaccctta | ataccacatg | 240 |
| tctgtctgag | ccaagtttct | gagcgccagg | gaggtgagga | aggttggact | tcaccagaga | 300 |
| ggctttgtgg | acacccttta | tcatcttagt | gagtgttagt | gtcaaaacaa | agggagtggg | 360 |
| gatatggggc | acattgggtgg | agggaggtgt | gatctc | | | 396 |

<210> 507
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 507 | | | | | | |
| ttgcccataa | agtggagcac | gaaagcagga | cccagaatgg | gaggagcttc | cagaggaccg | 60 |
| gaacacttgc | ctttgagcgg | gtctacactg | ccaagtgagt | cctaaccctg | atgttgctaa | 120 |
| taagtggggg | catgggcagg | ggggcctcct | tctaggagtg | atgaccacc | ttaataccac | 180 |
| atgtctgtct | gagccaagyt | tctgagcgcc | agggaggtga | ggaagggttg | acttcaccag | 240 |
| agaggctttg | tggacacctt | ttatcatctt | agtgagtgtc | agtgtcaaaa | caaaggaggt | 300 |
| ggggatatgg | ggcacattgg | tggagggagg | tgtgatctct | gcagcttcag | aaagatctga | 360 |
| aagagtcatt | tggttagaga | agttgacctt | tttctt | | | 396 |

<210> 508
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|------------|-------------|-------------|-----|
| <400> 508 | | | | | | |
| aaacaaaggg | agtggggata | tggggcacat | tggtggaggg | aggtgtgatc | tctgcagctt | 60 |
| cagaaagatc | tgaaagagtc | atthtggttag | agaagttgac | ctatttctctg | tgggggttaga | 120 |
| ccagggttgc | tactgtgaac | accagccatg | actcaccagt | caccttcaga | agccacaggc | 180 |
| aggacatgct | gacgacagyc | ttcaactcac | ccacccttg | ctcccctgcg | ggtggaagtc | 240 |
| tggaggtgac | accactgcat | tttctaacac | gggggctcct | tgagcaacta | gaacaagaac | 300 |
| agaaagaatg | gggacattag | caggtgcttt | ccccctctct | cattcttttc | tttgaataaa | 360 |
| aaggttgttt | gaaaacacct | gagcggctcc | taaaga | | | 396 |

<210> 509
 <211> 396

<212> DNA
<213> Homo sapiens

<400> 509

```
ctcctctctt ctttatgcag agtgtatttc aaggctcagc cagtggcagg catgctgggg 60
actatggact acggactagg ggcctgtcac agaggaaggc ctcatgctag agagctaagg 120
gaggagctgg ccttcagttc catcccagga gcaactttga tgttcccaga gatccttcca 180
aagggggagt catggtcamc caagaaaaat gtattcagaa tgccaagaat ggtgcaaaact 240
caggacaaag attcacactg cagggttggg gtccctgggc ttgctgctgg caccatggga 300
gggagggtcc ccttcagggg taccgttggg ttctgtgtaa ttaaactggc ttcaagggat 360
ctcgactgaa caggcctata tcacactcac tgatat 396
```

<210> 510
<211> 396
<212> DNA
<213> Homo sapiens

<400> 510

```
tctcctcatc taggtatttt taattgtttc agtgagggtg aggcattgagg ggattggagg 60
gggcatctcc tccattgcag tttttcattg gctgctttgc tccctcagct ccgaaatcgc 120
tgggccactc tcgaacgcat tagtacggtg gtcacagggt gattgcctgg ccccttgccc 180
tctgtgggca ttttccctyt cagacagccc ctgagtactc acagtgctgc tacagtgggc 240
cacctagatc tccctctttc tccatgtctc cacgtgctct gggctccact cccttctccc 300
aagcacttct gtccagggtc attccagcag tctgacctca aggaaatcct ttgctaaact 360
gattatagag aggtttctat tttaacattt aggtct 396
```

<210> 511
<211> 396
<212> DNA
<213> Homo sapiens

<400> 511

```
atctaggtat ttttaattgt ttcagtgagg tgtaggcatg aggggattgg agggggcatc 60
tcctccattg cagtttttca ttggtgctt tgctccctca gctccgaaat cgctgggcca 120
ctctcgaacg cattagtacg gtagtacag gttgat.tgcc tggccccttg cctctgtgtg 180
gcattttccc tttcagacwg cccctgagta ctacacagtgc tgctacagtg ggccacctag 240
atctccctct ttctccatgc tcccacgtgc tctgggctcc actcccttct cccaagcact 300
tctgtccagg gctattccag cagtctgacc tcaaggaaat cctttgctaa actgattata 360
gagagggttc tattttaaca tttaggtctt ccattgt 396
```

<210> 512
<211> 396
<212> DNA
<213> Homo sapiens

<400> 512

```
aggtgtaggc atgaggggat tggagggggc atctcctcca ttgcagtttt tcattggctg 60
ctttgtctcc tcagctccga aatcgctggg ccactctcga acgcattagt acggtagtca 120
cagggttgatt gcctggcccc ttgccctctg tgggcatttt ccttttcaga cagcccctga 180
gtactcacag tgctgtctaya gtggggccacc tagatctccc tctttctcca tgctcccacg 240
tgctctgggc tccactccct tctcccaagc acttctgtcc agggctattc cagcagtctg 300
acctcaagga aatcctttgc taaactgatt atagagaggt ttctatttta acatttaggt 360
cttccatgta ttaattctca gaatcaattt aagatg 396
```

<210> 513
<211> 396
<212> DNA
<213> Homo sapiens

<400> 513

```
cctttcagac agcccctgag tactcacagt gctgctacag tggggccacct agatctccct 60
ctttctccat gctcccacgt gctctgggct ccactccctt ctccaagca cttctgtcca 120
gggctattcc agcagtctga cctcaaggaa atcctttgct aaactgatta tagagagggt 180
```

| | | | | | | |
|-------------|-------------|-------------|------------|------------|------------|-----|
| tctatttttaa | catttaggyc | ttccatgtat | taattctcag | aatcaattta | agatgtttta | 240 |
| agggtgtgatt | taagacattt | taaaaccatt | tggaggagag | tacagaaatt | atgtcacttg | 300 |
| ctgtcagcct | ctttgcacca | tctgcagaga | aagatactag | agtcccgct | tggacacatc | 360 |
| cacatgcaag | agggtgcaaag | aagggtgtctt | tgatga | | | 396 |

<210> 514
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 514 | | | | | | |
| ttctcagaat | caatttaaga | tgtttaaagg | tgtgatttaa | gacattttta | aaccatttgg | 60 |
| aggagagtac | agaaattatg | tcacttgctg | tcagcctctt | tgcaccatct | gcagagaaag | 120 |
| atactagagt | cccgcttgg | acacatccac | atgcaagagg | tgcaaagaag | gtgtctttga | 180 |
| tgaggcaagg | tcaaaactyc | tccccagacg | aaatccaaag | aaagcattcc | tactatgcta | 240 |
| tatcagtttg | gaaagaaaaa | cttctgccag | gtgactgcat | tctcactggg | cacattgtgt | 300 |
| tcctatggac | tcctcagctc | aaccaatttg | gagaagttaa | ggtgcaattt | caccatatct | 360 |
| ggttagaagt | taagtttcca | atttgctggc | aatgaa | | | 396 |

<210> 515
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|-------------|------------|-------------|-------------|-----|
| <400> 515 | | | | | | |
| aagaagggtgt | ctttgatgag | gcaagggtcaa | aacttctccc | cagacgaaat | ccaaagaaag | 60 |
| cattcctact | atgctatata | agtttggaag | gaaaaacttc | tgccagggtga | ctgcattctc | 120 |
| actggtcaca | ttgtgttctt | atggactcct | cagctcaacc | aatttggaga | agttatgggtg | 180 |
| caatttcacc | atatctggyt | agaagttaag | tttccaattt | gctggcaatg | aagaagaaat | 240 |
| ggagcaggcc | aggctgtgta | gtttctgcca | cgtgcccccg | ggagtgaaca | gctctgtttg | 300 |
| taagaagcca | tggtgcttag | acctgggctc | gctagtgtgc | agcctccaaa | ttgcagaagt | 360 |
| gccctttggt | tggtggctat | gctgtgtcac | ttggga | | | 396 |

<210> 516
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 516 | | | | | | |
| gcaacatata | tgtgtgcctg | tctgggttgt | aaaaagggtc | aaagatcaat | gcagcaggca | 60 |
| gctacatgct | ggcaaaagcc | agaggcagct | ggtctgtttg | cctgtgccag | gaaaccactg | 120 |
| ggaatggggg | tgtgtgttat | tctaggagaa | agtcgtccca | gcagcagctt | ctccaggggc | 180 |
| atccaagagc | actgaaaarg | gttgcaagat | gacccatgag | gctgcaggaa | gaaaagaaca | 240 |
| tgcattttaat | cttgcctatc | gaaaagtaag | acatgaagct | ttcctcattt | ttaatataca | 300 |
| catggacagt | agtatgtgta | tatagtttat | atgcaaatat | acttgttata | aggttgcagt | 360 |
| ctcaaaattt | ttggttcatg | gggtgtggga | tcataa | | | 396 |

<210> 517
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|-------------|-------------|--------------|-----|
| <400> 517 | | | | | | |
| cagctacatg | ctggcaaaaag | ccagaggcag | ctggctctgtt | tgctgtgccc | aggaaaccac | 60 |
| tgggaatggg | gttgtgtgtt | attctaggag | aaagtcgtcc | cagcagcagc | ttctccaggg | 120 |
| gcatccaaga | gcaactgaaa | gggttgcaag | atgacccatg | aggctgcagg | aagaaaagaa | 180 |
| catgcattta | atcttgctrt | ctgaaaagta | agacatgaag | ctttcctcat | ttttaatatata | 240 |
| cacatggaca | gtagtatgtg | tatatagttt | atatgcaaat | atacttggtta | taaggttgca | 300 |
| tgctcaaaat | ttttggttca | tggggtgtgg | gatcataaat | gtttagggac | catggctatc | 360 |
| aaggaaaaac | agcatgaagg | ataaatgata | ctgggtg | | | 396 |

<210> 518
 <211> 396

<212> DNA
<213> Homo sapiens

<400> 518

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| ctatctgaaa | agtaagacat | gaagctttcc | tcatttttaa | tatacacatg | gacagtagta | 60 |
| tgtgtatata | gtttatatgc | aaatatactt | gttataaggt | tgcattgctca | aaatttttgg | 120 |
| ttcatggggg | gtgggatcat | aaatgttttag | ggaccatggc | tatcaaggaa | aaacagcatg | 180 |
| aaggataaat | gatactggyg | gattaaaaag | acagatgcat | gtattttttag | cataaaacac | 240 |
| aactgctgac | tgatacagat | agctcaagat | tctggggcag | ctgctgaaca | gatacactag | 300 |
| ccagtgtggc | tcatcggctc | agacttggcc | ttaattaatg | ggctgtccct | ccacccatct | 360 |
| cccatgaggg | cagagctgag | ccagggtttg | agagct | | | 396 |

<210> 519

<211> 396

<212> DNA

<213> Homo sapiens

<400> 519

| | | | | | | |
|------------|------------|------------|-------------|-------------|------------|-----|
| agtttatatg | caaataact | tggtataagg | ttgcatgctc | aaaatttttg | gttcatgggg | 60 |
| tgtgggatca | taaatgttta | gggaccatgg | ctatcaaggga | aaaacagcat | gaaggataaa | 120 |
| tgatactggg | ggattaaaaa | gacagatgca | tgtattttta | gcataaaaaca | caactgctga | 180 |
| ctgatacaga | tagctcaasa | ttctggggca | gctgctgaac | agatacacta | gccagtgtgg | 240 |
| ctcatcggct | cagacttggc | cttaattaat | gggctgtccc | tccacccatc | tcccatgagg | 300 |
| gcagagctga | gccagggttt | gagagctaaa | aggaattgga | cctggactct | gttcacgtgt | 360 |
| atattttaat | tctaattaat | tcattctttt | gaaaga | | | 396 |

<210> 520

<211> 394

<212> DNA

<213> Homo sapiens

<400> 520

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| gtattttttag | cataaaacac | aactgctgac | tgatacagat | agctcaagat | tctggggcag | 60 |
| ctgctgaaca | gatacactag | ccagtgtggc | tcatcggctc | agacttggcc | ttaattaatg | 120 |
| ggctgtccct | ccacccatct | cccatgaggg | cagagctgag | ccagggtttg | agagctaaaa | 180 |
| ggaattggac | ctggactcdg | ttcacgtgta | tattttaatt | ctaattaatt | cattcttttg | 240 |
| aaagacagag | tcacactctg | ttgcctaggg | tggagtgcag | tggcacgac | ttggctcact | 300 |
| gcaacctcgg | cctcccagg | tcaagttatt | ctcctgcttc | agcctcctga | gtagctggga | 360 |
| ttataggcac | atgcccccat | gcctgactaa | tttt | | | 394 |

<210> 521

<211> 396

<212> DNA

<213> Homo sapiens

<400> 521

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gctaaaagga | attggacctg | gactctgttc | acgtgtatat | tttaattcta | attaattcat | 60 |
| tcttttgaaa | gacagagtca | cactctgttg | cctaggctgg | agtgcagtgg | cacgatcttg | 120 |
| gctcactgca | acctcggcct | cccagggttc | agttattctc | ctgcttcagc | ctcctgagta | 180 |
| gctgggatta | taggcacayg | cccccatgcc | tgactaattt | ttgtattttt | agtagagacg | 240 |
| gggtttcacc | atgtcaggct | ggctttgaac | tcttgacctc | aggttatcca | ccgccttgg | 300 |
| cccctcaaag | tgttggaatt | acagggtgtg | gccaccgtgc | ctggcctgtt | cacatgtata | 360 |
| aaacacagtt | taatgtccta | ttcccagcca | atgagc | | | 396 |

<210> 522

<211> 396

<212> DNA

<213> Homo sapiens

<400> 522

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tcaggttatc | cacccgcctt | ggccccctca | agtgttggaa | ttacagggtg | gagccaccgt | 60 |
| gcctggcctg | ttcacatgta | taaaacacag | tttaatgtcc | tattcccagc | caatgagcat | 120 |
| ggctagagca | gccttggtca | aagtttggtt | tttgagagaa | aatccttggt | agctgacctt | 180 |

| | | | | | | |
|------------|------------|------------|------------|-------------|------------|-----|
| agattcctct | ttgtgagtkt | aagtaagcac | aggttgcaga | gaggagaagg | gtctctggag | 240 |
| agggtgaatt | ttctaaatgg | attacaagtt | catggacttt | taacagggtgt | tacaggggat | 300 |
| aacaagttct | ttatagacag | acttttgagg | acgtttaagg | gtattctgat | tcttggtttt | 360 |
| ctaagagggg | aatgtattat | ttaactacag | acaccc | | | 396 |

<210> 523

<211> 396

<212> DNA

<213> Homo sapiens

<400> 523

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| aaaatccaga | ataataataa | tttgtcaata | ggaaagacat | ttccactggg | ggttaagaag | 60 |
| gaagacattg | gaacaatgat | agccaccact | tattgaatgc | ttactgtgag | ccagggtggca | 120 |
| cttcaccttg | tttcattctc | acaacagtct | aggggaagtaa | ttactaatgt | ctccatccac | 180 |
| ctcttgtaga | tgagcaaayt | gaggctcatt | gaggctagga | aatgcaccca | cactcacata | 240 |
| gcccataaga | ggcagccatg | gcattggggc | cagaccatgt | gaacttcaaa | gactacacga | 300 |
| gcagccactg | ggcagctgtc | atggctaaag | ccacttgaat | tcagcccagc | agcaaccccc | 360 |
| tctccaggag | gggcacataa | gcttgcagct | ttgggt | | | 396 |

<210> 524

<211> 396

<212> DNA

<213> Homo sapiens

<400> 524

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| ataataataa | tttgtcaata | ggaaagacat | ttccactggg | ggttaagaag | gaagacattg | 60 |
| gaacaatgat | agccaccact | tattgaatgc | ttactgtgag | ccagggtggca | cttcaccttg | 120 |
| tttcattctc | acaacagtct | aggggaagtaa | ttactaatgt | ctccatccac | ctcttgtaga | 180 |
| tgagcaaact | gaggctcayt | gaggctagga | aatgcaccca | cactcacata | gcccataaga | 240 |
| ggcagccatg | gcattggggc | cagaccatgt | gaacttcaaa | gactacacga | gcagccactg | 300 |
| ggcagctgtc | atggctaaag | ccacttgaat | tcagcccagc | agcaaccccc | tctccaggag | 360 |
| gggcacataa | gcttgcagct | ttgggtagaa | gctgca | | | 396 |

<210> 525

<211> 396

<212> DNA

<213> Homo sapiens

<400> 525

| | | | | | | |
|------------|------------|-------------|-------------|-------------|-------------|-----|
| gcacttgaag | tcctggatgg | cgagagggac | tggcttgagc | cagagccagg | aacaaggctc | 60 |
| tgagaatatt | ctggaaatcc | acaggaggaa | cccattttct | tacagctggg | agaattttcat | 120 |
| tcaactccag | gctgaccatg | ttttattagg | aacgaagggtg | acttgaacta | atagtcagga | 180 |
| atggttgaat | acggaccra | tgtcaaatca | ctaggcagtt | cacattttcta | atgagcaaat | 240 |
| cccttagaca | attaagaatt | tttttccttt | tgcataaccc | agacaaaatc | gctactttaa | 300 |
| aacaaaccaa | agacccgaaa | catgagaaaag | agaaggaagc | aggggaaatc | tttgggtacta | 360 |
| ataagttttt | aaacaataag | agcaccagat | atttta | | | 396 |

<210> 526

<211> 396

<212> DNA

<213> Homo sapiens

<400> 526

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| atgagcaaat | cccttagaca | attaagaatt | tttttccttt | tgcataaccc | agacaaaatc | 60 |
| gctactttaa | aacaaaccaa | agacccgaaa | catgagaaaag | agaaggaagc | aggggaaatc | 120 |
| tttgggtacta | ataagttttt | aaacaataag | agcaccagat | attttacccc | atcagacaca | 180 |
| gaatgttatt | cgaataacsa | aaaaaggaat | tttttctcta | agtttcttga | actggaaaat | 240 |
| gaatcatatt | ttctcagtc | tgaggctgca | attttgtgcc | tctagtaaca | tataagaata | 300 |
| gatgtgatgc | cagtgcccg | tagctgctgc | aattgttact | tggggacctg | tttattcact | 360 |
| aagcacttca | ccccagtgat | aaatttgtag | gggcct | | | 396 |

<210> 527

<211> 396

<212> DNA
<213> Homo sapiens

<400> 527

```
ccgtgtccat tagatcagtg gaaattcttg gattcagagc actttgcaag gtcagcaggg 60
gtctgtctctt tctgtcctgt tcctgggttt tggttggtgcc tggattccag ggtaggtttc 120
tcatctgtta ctttcataga cttctccaga aaaggatctt ttgaccatca gaggaccacg 180
aagattccat tggtgaggyg cagataacct gatctctctg ggttctctgc agggcacaga 240
tgaagggtcg gccattccca agttctcagt ggtaccactg aggcattgaga ccctaattgg 300
ttgcatgagc agtttgaaaa ttgcatcttt gtttttacct atataatcac atgaaacccg 360
tggttctcaa acgtcagcag gcatcagcat cacatg 396
```

<210> 528

<211> 396

<212> DNA

<213> Homo sapiens

<400> 528

```
tcagtggtag cactgaggca tgagacctta atggtttgca tgagcagttt gaaaattgca 60
tctttgtttt tacctatata atcacatgaa acccgtgggt ctcaaactgc agcaggcatc 120
agcatcacat ggagggcttg ttaaaacaga tttctgggcc ccaacacaga gttttaaatt 180
ctgaaggcct gaggtgggyg tgaacatttg catttctaac atgttctcga tgctgtgcc 240
gcctctggtc ccgagagcat gcctggagaa ctgccacctt cgaccatgga ctgtgagaat 300
tcacatggac ctccagaatta taatcagttc ctccagtttta cagataagga aactaaatcc 360
agagagattg ttttgccaat ggtgaacagc tgggta 396
```

<210> 529

<211> 396

<212> DNA

<213> Homo sapiens

<400> 529

```
atggtttgca tgagcagttt gaaaattgca tctttgtttt tacctatata atcacatgaa 60
acccgtgggt ctcaaactgc agcaggcatc agcatcacat ggagggcttg ttaaaacaga 120
tttctgggcc ccaacacaga gttttaaatt ctgaaggcct gaggtgggtg tgaacatttg 180
catttctaac atgttctcra tgctgtgcc gcctctggtc ccgagagcat gcctggagaa 240
ctgccacctt cgaccatgga ctgtgagaat tcacatggac ctccagaatta taatcagttc 300
ctcagtttta cagataagga aactaaatcc agagagattg ttttgccaat ggtgaacagc 360
tggttaaagt caggatggag actttaatcc tagtca 396
```

<210> 530

<211> 396

<212> DNA

<213> Homo sapiens

<400> 530

```
gagcagtttg aaaattgcat ctttgttttt acctatataa tcacatgaaa cccgtgggtc 60
tcaaactgca gcaggcatca gcatcacatg gagggcttg taaaacagat ttctgggccc 120
caacacagag ttttaaatc tgaaggcctg aggtgggtgt gaacatttgc atttctaaca 180
tggtctcgat gctgtgcyg cctctgggtc cgagagcatg cctggagaac tgccaccttc 240
gaccatggac tgtgagaatt cacatggacc tcagaattat aatcagttc tcagttttac 300
agataaggaa actaaatcca gagagattgt tttgccaatg gtgaacagct ggttaaagtc 360
aggatggaga ctttaatcct agtcaagtga cctttc 396
```

<210> 531

<211> 396

<212> DNA

<213> Homo sapiens

<400> 531

```
agtttgaaaa ttgcatcttt gtttttacct atataatcac atgaaacccg tggttctcaa 60
acgtcagcag gcatcagcat cacatggagg gcttgtaaaa acagatttct gggcccaaac 120
acagagtttt aaattctgaa ggcctgaggt ggggtgtgaac atttgcattt ctaacatggt 180
```

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| ctcgatgctg | ctgccgcckc | tggccccgag | agcatgcctg | gagaactgcc | accttcgacc | 240 |
| atggactgtg | agaattcaca | tggacctcag | aattataatc | agtctctcag | ttttacagat | 300 |
| aaggaaacta | aatccagaga | gattgtttttg | ccaatggtga | acagctgggt | aaagtcagga | 360 |
| tggagacttt | aatcctagtc | aagtgaacct | tcctct | | | 396 |

<210> 532
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 532 | | | | | | |
| catcttttgtt | tttacctata | taatcacatg | aaacccgtgg | ttctcaaacg | tcagcaggca | 60 |
| tcagcatcac | atggagggtc | tggtaaaaca | gatttctggg | ccccaacaca | gagttttaaa | 120 |
| ttctgaaggc | ctgaggtggg | tgtgaacatt | tgcatctcta | acatgttctc | gatgctgctg | 180 |
| ccgcctctgg | ccccgagakc | atgcctggag | aactgccacc | ttcgaccatg | gactgtgaga | 240 |
| attcacatgg | acctcagaat | tataatcagt | ctctcagttt | tacagataag | gaaactaaat | 300 |
| ccagagagat | tgttttgcc | atggtgaaca | gctgggttaa | gtcaggatgg | agactttaat | 360 |
| cctagtcaag | tgacctttcc | tctgtattta | tttccc | | | 396 |

<210> 533
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 533 | | | | | | |
| atttctgaca | tcctgaacca | tagtaaaagg | gtgttttttg | tttttttgag | acagagtctt | 60 |
| gctctgttgc | ctgggctgga | gtgcagtggg | gtgatcttgg | ctcgctgcaa | cctccgcctc | 120 |
| ccaggttcaa | gtgattctcc | tgccctcagc | tcctgagtag | ctgggattac | aggtgcttgc | 180 |
| caccacacct | ggctatttkt | tgtgttttta | gtagagacag | ggtttcacca | tggtggccag | 240 |
| gctggtcttg | aactcctgac | cttgtgatct | gcctgcctca | gcctcccaaa | ttgctgggat | 300 |
| tacaaggcgt | gttggtttta | gccactcagt | ttgtggccac | ttgttacagc | agcaagagga | 360 |
| aactcataca | gttatcatgt | gaactcacag | gaatat | | | 396 |

<210> 534
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 534 | | | | | | |
| gatctgcctg | cctcagcctc | ccaaattgct | gggattacaa | ggcgtgttgt | tttaagccac | 60 |
| tcagtttgtg | gccacttggt | acagcagcaa | gaggaaactc | atacagttat | catgtgaact | 120 |
| cacaggaata | tggtgagtta | aaaagagagg | aagggtgcaa | aacatccacg | gtagagtga | 180 |
| aactctccag | ggagtgagra | ctgtgcccag | catacagtga | tcacctctct | agtaagctaa | 240 |
| gtttctgagc | accagctttt | ttgagttgac | tttgttgtct | ttaacatttg | aagatcaccc | 300 |
| ttctttgctc | agcctggcct | gcagacctgg | gctgatttgt | ggatctgata | gaaaagtttc | 360 |
| cttagttggg | ctcttctccc | cgaccacccc | catgcc | | | 396 |

<210> 535
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 535 | | | | | | |
| tgccctcagcc | tcctaaattg | ctgggattac | aaggcgtgtt | gttttaagcc | actcagtttg | 60 |
| tggccacttg | ttacagcagc | aagaggaaac | tcatacagtt | atcatgtgaa | ctcacaggaa | 120 |
| tatggtgagt | taaaaagaga | ggaagggtgc | aaaacatcca | cggtagagtg | agaactctcc | 180 |
| agggagtgag | gactgtgcmc | agcatacagt | gatcaccctc | ttagtaagct | aagtttctga | 240 |
| gcaccagctt | ttttgagttg | actttgttgt | ctttaacatt | tgaagatcac | ccttctttgc | 300 |
| tcagcctggc | ttgcagacct | gggctgattt | gtggatctga | tagaaaagtt | tccttagttg | 360 |
| ggctcttctc | cccgaccacc | cccatgccag | tgtggc | | | 396 |

<210> 536
 <211> 396

<212> DNA
<213> Homo sapiens

<400> 536

```
gctacttttgc agccaaggta actcagactt cccctttgttc attctccttc tataaagtgc 60
atctcaagga gggtcaaagg gcaggctttt tgttgaaagg actttgcctg acctctggct 120
cccatctgtg aagccctgga gaggtgagag ccctcgggag gccgtgtttc aggcattgtc 180
tgcacccgtg cagagcgert gtgataatgc attgctaattg cttgctccct ggtggctggc 240
tgagagctgc tgtgctgaca aggggtggtt aaggctaaat gtgactcaga atccttaagc 300
agtgttagtt cagatacaag ggcattataa atgagagtgc ctgagggatc tattttggga 360
ccgctgtcac ttggctcttc tgctaataag cttcca 396
```

<210> 537
<211> 396
<212> DNA
<213> Homo sapiens

<400> 537

```
acagttatca gcagcccaca ggcttgactt gagcaagttg gaaagacaaa tcaacttcca 60
gagttgattt aacattgagt ggaaatcagt catacttttg gtccctttc ggggccacgc 120
ctggcactgt gcctgggtggc agatcggcat gaactggcca gcttctgtgg ccctggaggg 180
cacaggcaga aaggccacrc tcagtcccat gatgaactgt ttaagactta ttgttgtctc 240
cccgtctctg aaagtagata gagtggattt tatgtccctt attacctttc aggatacttt 300
gactcagggg gataaagtaa cttgggtaca gctactcagc tgggtgaagaa cacaggcaga 360
atgagtgcct gggctctttg acttaaaatt ctggat 396
```

<210> 538
<211> 396
<212> DNA
<213> Homo sapiens

<400> 538

```
ctgtgcctgg tggcagatcg gcatgaactg gccagcttct gtggccctgg agggcacagg 60
cagaaaggcc acactcagtc ccatgatgaa ctgtttaaga cttattgttg tctccccgct 120
ctgtaaagta gatagagtgg attttatgtc cttattacc tttcaggata ctttgactca 180
gggagataaa gtaacttgsg tacagctact cagctggtga agaacacagg cagaatgagt 240
gcctgggtct tttgacttaa aattctggat ttttcacaaa gatcctctta ctttattcat 300
ttacataata aatatatatt gaagagctac tctgtgccaa gccctgtgcc tagatatata 360
gtgataaata aagagtagct tctagaggtc acctgg 396
```

<210> 539
<211> 396
<212> DNA
<213> Homo sapiens

<400> 539

```
aagttcagtg atagagagca gaggtgaggc ggcagcagaa accacttaag ggacaccacg 60
tggcactcct tctgtgctga gaaggctgtc agtaagctca ccatttatct cctattttct 120
ctcctgagtt aaataggaaa catgtctcgc attacttgaa aaatcaagtc aaactatgct 180
cttactagga gttatggttc tttttatgtc ttagatgatg cttgatctag atgaatgcgg 240
acttgctgta gctagataaa tacaatggga gtttgaaagg gtttcgtagc cctggaaata 300
ggtatttcct gtcaaaacaa gctttgtcat tgccagcaga caaaagcatc agtaaccttg 360
gttgataatc gtcatttctt aggaataaag tagact 396
```

<210> 540
<211> 396
<212> DNA
<213> Homo sapiens

<400> 540

```
gtatttcctg tcaaaacaag ctttgtcatt gccagcagac aaaagcatca gtaaccttgg 60
ttgataatcg tcatttctta ggaataaagt agactgtaga atttttttta gcagaaagga 120
aacccaaaga taattctagt gcaaattcct cactttatag agcagaagct caagtcccag 180
```

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| aggaacaagt | ggcttgaayg | aacatcagaa | ttttaggggc | tggatttgta | ccctcctggt | 240 |
| gccagcagcc | cacttccctg | caggaggcac | tcaccttcct | tgcacagggg | tatgagtgtg | 300 |
| gccattttcc | acccataatc | tctgttagct | catgttcaat | tgggttccca | ttgaaagaaa | 360 |
| aatggaccag | taagttggag | cagaatcatt | cagatg | | | 396 |

<210> 541
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 541 | | | | | | |
| agctttgtca | ttgccagcag | acaaaagcat | cagtaacctt | ggttgataat | cgtcatttct | 60 |
| taggaataaa | gtagactgta | gaattttttt | tagcagaaag | gaaacccaaa | gataattcta | 120 |
| gtgcaaattc | ctcactttat | agagcagaag | ctcaagtccc | agaggaacaa | gtggcttgaa | 180 |
| cgaacatcag | aatttttagkg | gctggatttg | taccttcctg | gtgccagcag | cccacttccc | 240 |
| tgcaggaggc | actcaccttc | cttgcacagg | ggtatgagtg | tggccatttt | ccaccataa | 300 |
| tctctgttag | ctcatgttca | attgggttcc | cattgaaaga | aaaatggacc | agtaagttag | 360 |
| agcagaatca | ttcagatggt | ataacataag | gaaaaa | | | 396 |

<210> 542
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-----|
| <400> 542 | | | | | | |
| tgttttaatt | gcttttatat | ctgtagctct | agataaacact | agttccagct | tagttaactc | 60 |
| ccagctccaa | gccttcagga | cttcataagag | ttattggggg | gctgctcttg | gcagtttccc | 120 |
| aaaaagctag | aatgcagagg | gaatctcctt | ccccaaaagc | tagaatgcag | agggaaatctc | 180 |
| cttcccaaaa | ggctagaayg | cagagggaat | ctccttccca | aaaagctaga | atgcagaggg | 240 |
| aatctccttc | ccaaaaggct | agaacgcaga | gggaatctcc | ttcccaaaag | gctagaacgc | 300 |
| agagggaatc | tccttcccaa | aaggctagaa | tgcagagggg | atgtccttct | cttctaaatg | 360 |
| gtagctgtta | gttcaagaaa | ggttaaacat | tgtgct | | | 396 |

<210> 543
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 543 | | | | | | |
| gctgcgtttg | ctggactgat | gtacttgttt | gtgaggcaaa | agtactttgt | cggttaccta | 60 |
| ggagagagaa | cgcagaggta | ggtaactggg | actactaaag | aactgtggag | cgattcctga | 120 |
| tttttgagca | ggaagagtga | caattcaaaa | cagtatttga | ctagattcac | ggctccgtag | 180 |
| catccccttg | ggtgggagsg | ggaaggctga | ctaggacctc | tgattcttct | ttccctgagc | 240 |
| tttgaaggct | ctgaaaatac | agctgggggg | acttgcccag | ttttcttatt | aagcaattcc | 300 |
| tccgcatggg | gctggctttc | aaagggtgct | tcagtgtgtg | ttgctgcacg | tgcttgcag | 360 |
| ccccacaccc | tgcactcccg | cctgcagag | tctggc | | | 396 |

<210> 544
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 544 | | | | | | |
| gaggcaaaaag | tactttgtcg | gttacctagg | agagagaacg | cagaggtagg | taactgggac | 60 |
| tactaaagaa | ctgtggagcg | attcctgatt | tttgagcagg | aagagtgaca | attcaaaaca | 120 |
| gtatttgact | agattcacgg | ctccgtagca | tccccttggg | tgggaggggg | aaggctgact | 180 |
| aggacctctg | attcttctyt | ccctgagctt | tgaaggctct | gaaaatacag | ctgggggggac | 240 |
| ttgcccagtt | ttcttattaa | gcaattcctc | cgcattggtg | tggctttcaa | agggtgcttc | 300 |
| agtgtgtgtt | gctgcacgtg | ccttgacgag | ccacaccctg | cactcccgcc | ctgcagagtc | 360 |
| tggcgctgga | atgacatttt | aggctctggg | tcccag | | | 396 |

<210> 545
 <211> 396

<212> DNA
<213> Homo sapiens

<400> 545

| | | | | | | |
|-------------|-------------|------------|-------------|------------|------------|-----|
| tatcttttcag | ggaccagaag | aaagaatggt | gggaaaataa | gatgcagtaa | gatgcagaca | 60 |
| tgacagcagg | gtgcagcggc | tcacgcctat | aatcccagca | ctttgggagg | ctgaggtggg | 120 |
| tggatcacct | gaggtcagga | gtttgagacc | agcctggcca | acatggtgaa | accccgctc | 180 |
| tactaaaaaa | tatacaaarc | attagccagg | catggtgggtg | ggcgcctgta | atcccagcta | 240 |
| ctccataggg | tgaggctgga | gaatcgcttg | aaccaggag | gcagaggttg | cagtgaagcg | 300 |
| agattgcgcc | actgcactcc | agcctgggca | acaaaagcaa | aactccatct | caaaaaaaaa | 360 |
| aaaaaaaaaa | aaaaaaaaaga | tcgagacacg | agactg | | | 396 |

<210> 546
<211> 396
<212> DNA
<213> Homo sapiens

<400> 546

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|-----|
| tgggcgccctg | taatcccage | tactccatag | gctgaggctg | gagaatcgct | tgaacccagg | 60 |
| aggcagaggt | tcagtgagc | cgagattgcg | ccactgcact | ccagcctggg | caacaaaagc | 120 |
| aaaactccat | ctcaaaaaaa | aaaaaaaaaa | aaaaaaaaaa | gatgcagaca | cgagactgtg | 180 |
| aaactgacta | gcataccwt | tgcattgttt | atagatgttg | ccagacagaa | agcccaaaag | 240 |
| cagcacagta | ccttcctgac | atctgggacta | ggaaatctag | atttttagtaa | aatacatgct | 300 |
| aatacttaca | gaagaaatgt | cggcgttaga | gtatgccgtc | agttccttag | agattgcaat | 360 |
| tcctaatagca | ctagtatggt | ttcaggtgcc | aggaaac | | | 396 |

<210> 547
<211> 396
<212> DNA
<213> Homo sapiens

<400> 547

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| actccatctc | aaaaaaaaaa | aaaaaaaaaa | aaaaaaagat | gcagacacga | gactgtgaaa | 60 |
| ctgactagca | tcaccattgc | attgtttata | gatgttgcca | gacagaaagc | cccaaagcag | 120 |
| cacagtacct | tcctgacatc | tggactagga | aatctagatt | ttagtaaaat | acatgcta | 180 |
| acttacagaa | gaaatgtcrg | cgtttagagta | tgccgtcagt | tccttagaga | ttgcaattcc | 240 |
| taattgcacta | gtatgggttc | agggtgccagg | aacacgttct | gtgaggctgc | tgccccaggt | 300 |
| gctgacccca | gccttcacac | ccattttcct | tccttggtgt | cacagccgct | ctgtctttta | 360 |
| caatagcacc | cctctctagt | ggctaattggg | ctctat | | | 396 |

<210> 548
<211> 396
<212> DNA
<213> Homo sapiens

<400> 548

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|-----|
| aaaaaaaaaa | aaaaaaaaaa | aagatgcaga | cacgagactg | tgaaactgac | tagcatcacc | 60 |
| attgcattgt | ttatagatgt | tgccagacag | aaagcccaaa | agcagcacag | taccttcctg | 120 |
| acatctggac | taggaaatct | agatttttagt | aaaatacatg | ctaatactta | cagaagaaat | 180 |
| gtcggcggtta | gagtatgcyg | tcagttcctt | agagattgca | attcctaata | cactagtatg | 240 |
| gtttcaggtg | ccaggaacac | gttctgtgag | gctgctgccc | caggtgctga | ccccagcctt | 300 |
| ccacaccatt | ttccttcctt | gtgttcacag | ccgctctgtc | ttttacaata | gcacccctct | 360 |
| ctagtggcta | atgggctcta | tgattagata | gcatcc | | | 396 |

<210> 549
<211> 396
<212> DNA
<213> Homo sapiens

<400> 549

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| tttcaggtgc | caggaacacg | ttctgtgagg | ctgctgcccc | agggtgctgac | cccagccttc | 60 |
| cacaccattt | tccttccttg | tgttcacacg | cgctctgtct | tttacaatag | caccctctc | 120 |
| tagtggctaa | tggtgctctat | gattagatag | catccttcag | tagtgataaa | ggcagtgaca | 180 |

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| tcctagggag | gtcagcggt | gaaagcgcta | tatctggaaa | acctgagagc | ctgtgaagct | 240 |
| caaggacttg | acgggggttag | accgtgagcc | gggctgcagc | tggaaaaaga | atgactgttc | 300 |
| tttcagcaga | tccttccctg | tgccatctct | ttcttcattc | ctctctagt | gcattcttat | 360 |
| ttatcctcta | aaaccacaat | tccattatct | ctccta | | | 396 |

<210> 550
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|------------|-------------|-----|
| <400> 550 | | | | | | |
| gaggggtcttc | tcttttgcct | ggctccctat | gcagccctat | cttaccacct | gcaaagtccc | 60 |
| agggatgttg | ctcagtcact | gctcctctct | tcactgtgca | ccacttgctt | gagatccctac | 120 |
| agctgcttta | attccgagac | catctgcaga | acatgacaaa | atgtgtccac | ctaccacat | 180 |
| gtccttttaa | ctttaaagrc | tttactaact | gattcctatt | agggaatgaa | cagaggtggc | 240 |
| aaaaataaac | aataggagat | tgatttacia | gaaatcttta | aaatagtaga | tttcttcgga | 300 |
| cctcattgaa | atataaatgg | cctgccttct | tgtgtccctc | cctggtctcc | ctctttaggt | 360 |
| gataagaaga | agatcctgcc | agccccataa | cccgc | | | 396 |

<210> 551
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| <400> 551 | | | | | | |
| ttaaaatagt | agatttcttc | ggacctcatt | gaaatataaa | tggcctgcct | tcttgtgtcc | 60 |
| ctccctggtc | tcctctctta | ggtgataaga | agaagatcct | gccagcccca | taaccgcca | 120 |
| tctgcgcggg | ttctagaccc | ccttctctct | ccctctggcc | gtggtaggca | ttactgatga | 180 |
| atcatgggtc | tctttcttmc | agagaccaa | cctggcctcg | gaatccttct | taacacagat | 240 |
| actgcttaac | acaaccactc | tgagcagctg | tcataagtag | aagtaataga | tactagaaga | 300 |
| aatgtctaag | cctaactctag | acaaaatac | ggcctgatat | agatgcaagc | cagaggggct | 360 |
| ttatgggttaa | atgcaaggag | attttcaacc | ctgccg | | | 396 |

<210> 552
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| <400> 552 | | | | | | |
| ctgggtctccc | tcttttaggtg | ataagaagaa | gatcctgcca | gccccataac | ccgccatctg | 60 |
| cgcggtgtct | agacccccctt | ctcctccct | ctggccgtgg | taggcattac | tgatgaatca | 120 |
| tgggtgctctt | tcttccagag | acaaaacctg | gcctcggaat | ccttcttaac | acagatactg | 180 |
| cttaacacaa | ccactctgrg | cagctgtcat | aagtagaagt | aatagatact | agaagaaatg | 240 |
| tctaagccta | atctagacca | aaatacggcc | tgatatagat | gcaagccaga | ggggctttat | 300 |
| ggttaaatgc | aaggagattt | tcaacctctg | cgtctagaag | ctacttgctg | agatcttctt | 360 |
| cagttggggc | catctcctcc | ccaggcctct | cttctg | | | 396 |

<210> 553
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|------------|-------------|------------|-----|
| <400> 553 | | | | | | |
| ccataacccg | ccatctgcgc | gggttctaga | cccccttctc | ctccccctctg | gccgtggtag | 60 |
| gcattactga | tgaatcatgg | tgtcttttct | tccagagacc | aaacctggcc | tcggaatcct | 120 |
| tcttaacaca | gatactgctt | aacacaacca | ctctgagcag | ctgtcataag | tagaagtaat | 180 |
| agatactaga | agaaatgtmt | aagcctaata | tagacaaaaa | tacggcctga | tatagatgca | 240 |
| agccagaggg | gctttatggt | taaatgcaag | gagattttca | accctggcgt | ctagaagcta | 300 |
| cttgctgaga | tcttcttcag | ttgggccccat | ctcctcccca | ggcctctctt | ctgttctctg | 360 |
| gctatgtcac | acttggactc | tgcagacacc | taatgc | | | 396 |

<210> 554
 <211> 396

<212> DNA

<213> Homo sapiens

<400> 554

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| tggtaggcat | tactgatgaa | tcattggtgct | ctttcttcca | gagaccaaac | ctggcctcgg | 60 |
| aatccttctt | aacacagata | ctgcttaaca | caaccactct | gagcagctgt | cataagtaga | 120 |
| agtaatatag | actagaagaa | atgtctaagc | ctaacttaga | ccaaaatacg | gcctgatata | 180 |
| gatgcaagcc | agaggggckt | tatgggttaa | tgcaaggaga | ttttcaaccc | tgccgtctag | 240 |
| aagctacttg | ctgagatctt | cttcagttgg | gcccatctcc | tccccaggcc | tctcttctgt | 300 |
| tcctgggcta | tgtcacactt | ggactctgca | gacaccta | gctcttgga | cctgctttag | 360 |
| ttcttgacct | caccaaccga | ggaggaattg | ctagat | | | 396 |

<210> 555

<211> 396

<212> DNA

<213> Homo sapiens

<400> 555

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| cagagaccaa | acctggcctc | ggaatccttc | ttaacacaga | tactgcttaa | cacaaccact | 60 |
| ctgagcagct | gtcataagta | gaagtaatag | atactagaag | aaatgtctaa | gcctaatacta | 120 |
| gacaaaaata | cggcctgata | tagatgcaag | ccagaggggc | tttatgggta | aatgcaagga | 180 |
| gattttcaac | cctgccgtyt | agaagctact | tgctgagatc | ttcttcagtt | gggcccactct | 240 |
| cctccccagg | cctctcttct | gttcctgggc | tatgtcacac | ttggactctg | cagacaccta | 300 |
| atgctcttgg | gacctgcttt | agttcttgac | ctcaccaacc | gaggaggaat | tgctagatga | 360 |
| gatccttccc | ccggaatttc | tctcttgaac | cccaga | | | 396 |

<210> 556

<211> 396

<212> DNA

<213> Homo sapiens

<400> 556

| | | | | | | |
|-------------|------------|-------------|------------|-------------|------------|-----|
| gggcttttatg | gttaaagtca | aggagatttt | caaccctgcc | gtctagaagc | tacttgctga | 60 |
| gatcttcttc | agttggggcc | atctctctcc | caggcctctc | ttctgttctt | gggctatgtc | 120 |
| acacttgga | tctgcagaca | cctaattgctc | ttgggacctg | cttttagttct | tgacctcacc | 180 |
| aaccgaggag | gaattgctmg | atgagatcct | tcccccygaa | tttctctctt | gaacccaga | 240 |
| tggtccgttg | cccctttcca | gaagttgctc | cagccctgtc | cgcttaggaa | gttcagtgtc | 300 |
| atccttgatc | cagtgggtag | ggaagacatt | ccataatgaa | tgccccagtc | tgagcttctt | 360 |
| ccttcaggct | tcaggctgcc | ctgcgaggat | tttgca | | | 396 |

<210> 557

<211> 396

<212> DNA

<213> Homo sapiens

<400> 557

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gtagctgaga | ctacaggtgt | gcactaccac | accagctaa | ttttttgtat | ttttagtaga | 60 |
| gatagggttt | agctatgttg | gccaggctgg | tctcgaactg | ctgaactcaa | gcaatctgcc | 120 |
| atccccggcc | tcccaaagta | ctgggagtat | aggcataagc | cacccatgat | gccagcctg | 180 |
| aatcttggtt | tcttccccrt | tcatttaagc | tattacctgg | gcctgaactc | aatggcacct | 240 |
| ggcaccaact | ggcaactgac | tcttggtctt | ttattacctc | ccttccttag | caggcactgg | 300 |
| gttgctccct | cttcctatcc | catggagtcc | tgctctctgt | tggggctcct | actgatcctc | 360 |
| ttggcaatat | gaagttctca | gctcaatggt | gggtgg | | | 396 |

<210> 558

<211> 396

<212> DNA

<213> Homo sapiens

<400> 558

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| cccggcctcc | caaagtactg | ggagtatatg | cataagccac | ccatgatgcc | cagcctgaat | 60 |
| cttggtttct | tccccattca | tttaagctat | tacctgggcc | tgaactcaat | ggcacctggc | 120 |
| accaactggc | aactgactct | tggtctttta | ttacctacct | tccctagcag | gcactggggt | 180 |

| | | | | | | |
|------------|-------------|-------------|------------|-------------|------------|-----|
| gctccctctt | cctatccert | ggagtcctgt | cctctgttgg | ggctccctact | gatcctcttg | 240 |
| gcaatatgaa | gttctcagct | caatgggtggg | tgggcaatga | ctgccaaactc | ttgaggccaa | 300 |
| tgaactcagg | ttacccccact | cctcctcctc | ctgagttgct | cactcactcc | tcattcactc | 360 |
| aacattgatt | cagtagatat | ttgctacctg | ctctgt | | | 396 |

<210> 559
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|------------|------------|------------|-----|
| <400> 559 | | | | | | |
| ccggcctccc | aaagtactgg | gagtataggc | ataagccacc | catgatgccc | agcctgaatc | 60 |
| ttggtttctt | ccccattcat | ttaagctatt | acctgggcct | gaactcaatg | gcacctggca | 120 |
| ccaactggca | actgactctt | ggctctttat | tacctacctt | ccctagcagg | cactgggttg | 180 |
| ctccctcttc | ctatcccayg | gagtcctgtc | ctctgttggg | gctcctactg | atcctcttgg | 240 |
| caatatgaag | ttctcagctc | aatgggtggg | gggcaatgac | tgccaactct | tgaggccaat | 300 |
| gaactcaggt | tacccccactc | ctcctcctcc | tgagttgctc | actcactcct | cattcactca | 360 |
| acattgattc | agtagatatt | tgctacctgc | tctgtg | | | 396 |

<210> 560
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| <400> 560 | | | | | | |
| ggcataagcc | acccatgatg | cccagcctga | atcttggttt | cttccccatt | catttaagct | 60 |
| attacctggg | cctgaactca | atggcacctg | gcaccaactg | gcaactgact | cttgggtctt | 120 |
| tattacctac | cttccctagc | aggcactggg | ttgctccctc | ttcctatccc | atggagtcct | 180 |
| gtcctctgtt | ggggctccya | ctgatcctct | tggcaatatg | aagttctcag | ctcaatgggtg | 240 |
| ggtgggcaat | gactgccaac | tcttgaggcc | aatgaactca | ggttacccca | ctcctcctcc | 300 |
| tcctgagttg | ctcactcact | cctcattcac | tcaacattga | ttcagtagat | atttgctacc | 360 |
| tgctctgtgc | caggtaccag | gtcagttgct | gaagga | | | 396 |

<210> 561
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|-----|
| <400> 561 | | | | | | |
| cctggcacca | actggcaact | gactcttggg | cttttattac | ctaccttccc | tagcaggcac | 60 |
| tgggttgctc | cctcttcccta | tcccatggag | tctgtcctc | tgttggggct | cctactgatc | 120 |
| ctcttggcaa | tatgaagttc | tcagctcaat | gggtgggtggg | caatgactgc | caactcttga | 180 |
| ggccaatgaa | ctcaggttgc | cccactcctc | ctcctcctga | gttgctcact | cactcctcat | 240 |
| tcactcaaca | ttgattcagt | agatatttgc | tacctgctct | gtgccaggta | ccaggtcagt | 300 |
| tgctgaagga | gtaacagtga | acatgacgga | gtctttgtcc | ccaaggagac | ccaaggtgtc | 360 |
| tcctagagcc | aggggcacat | tgcaagacca | aatata | | | 396 |

<210> 562
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 562 | | | | | | |
| ctggcaactg | actcttgggc | ttttattacc | taccttccct | agcaggcact | gggttgctcc | 60 |
| ctcttccctat | cccatggagt | cctgtcctct | gttggggctc | ctactgatcc | tcttggcaat | 120 |
| atgaagttct | cagctcaatg | gtgggtgggc | aatgactgcc | aactcttgag | gccaatgaac | 180 |
| tcaggttacc | ccactcctyc | tctcctcgag | ttgctcactc | actcctcatt | cactcaacat | 240 |
| tgattcagta | gatatttgc | acctgctctg | tgccaggtag | caggtcagtt | gctgaaggag | 300 |
| taacagtga | catgacggag | tctttgtccc | caaggagacc | caaggtgtct | cctagagcca | 360 |
| ggggcacatt | gcaagaccaa | atatattcaa | cttacc | | | 396 |

<210> 563
 <211> 396

<212> DNA
<213> Homo sapiens

<400> 563

```
ccatggagtc ctgtcctctg ttggggctcc tactgatcct ctgggcaata tgaagttctc 60
agctcaatgg tgggtgggca atgactgcca actcttgagg ccaatgaact cagggttacc 120
cactcctcct cctcctgagt tgctcactca ctctcattc actcaacatt gattcagtag 180
atatttgcta cctgctctrt gccaggtagc aggtcagttg ctgaaggagt aacagtgaac 240
atgacggagt ctttgtcccc aaggagaccc aaggtgtctc ctagagccag gggcacattg 300
caagaccaa tatattcaac ttaccaaata aatcatagac ctagttctca aaaagcaaga 360
agactgattc ctggttgta tttctcctcc tcagca 396
```

<210> 564
<211> 396
<212> DNA
<213> Homo sapiens

<400> 564

```
ttagagtcct tgggcccctc caagtgtgga gtatgggtgtt acttcaccag agtttgagga 60
gaaacattct tcttttggaa ggccggggag catagatgga tatcaaggct gctgtttcta 120
aaagcgaaac ccaccaaaca acagtattag aatcatctgt ggtgcttatt aaagatacag 180
attcctgggc cccatcccmg acttatgaat cagaatctct gccagaggaa gcctgagaat 240
ttgcattctc agatgattct gcattctcag ataacacatt ctttaggtga ttcttacaca 300
cactggagtt tgggaatcgc tgaaggctgt tcacttctct tttctgagaa atgattcatt 360
catttcagaa atatttgtag aggtccttat ttattg 396
```

<210> 565
<211> 396
<212> DNA
<213> Homo sapiens

<400> 565

```
tggcctcatt cgtgtgataa atctgagcca ccacgatatt tgacttttca caatttaatt 60
tatctgaacc ctctattctc tggetaaaaa atatccctta ctgggacttc tttattttat 120
tttcaattcc cttaccagca ctagcagggg actctgtact catctgctgg cgctgccata 180
acaaagcact gcagcctgkg gggctcaaac cacagaattt attctctcac agtcctagag 240
gctagaagtc caagatcaaa gtgtgggcag ggtcggtttc tcctgcagcc tctctccttg 300
gcttatagag tgccaccttc tacctgtgtc ttcacatcat cacctcactg agcatgtctg 360
tgtccaaatc tccccttctt ataagacccc agtcat 396
```

<210> 566
<211> 396
<212> DNA
<213> Homo sapiens

<400> 566

```
tctccttggc ttatagagtg ccaccttcta cctgtgtctt cacatcatca cctcactgag 60
catgtctgtg tccaaatctc ccttctttat aagaccccag tcatactgga tgaggatcca 120
cccatatgag ttcattttac cttaattatc tctttaaaca ccctgtctcc aaatacagtc 180
ceattctgag gaactgagrg taaagattca acatatgaat tttggaaggg acctaattca 240
gccacaaca ccctcttttg ggatgtttat tttccccctt aaggagctag ttaggatgtc 300
ttatctcatg aacatgactg tgaacaggaa aacaggggaga gaatgaagct ggccaaggaa 360
cagggtgtgt gtcagctagc agtgcttttc tgatgt 396
```

<210> 567
<211> 396
<212> DNA
<213> Homo sapiens

<400> 567

```
cattttacct taattatctc tttaaacacc ctgtctccaa atacagtccc attctgagga 60
actgagagta aagattcaac atatgaattt tggaggggac ctaattcagc ccacaacacc 120
ctcttttggg atgtttattt tcccccttaa ggagctagtt aggatgtctt atctcatgaa 180
```

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| catgactgtg | aacaggaara | cagggagaga | atgaagctgg | ccaaggaaca | gggctgggtg | 240 |
| cagctagcag | tgcttttctg | atgtgagtg | gtcccacagg | gagcttggtt | aaatgcagat | 300 |
| tctgattcat | taggttccag | agggacctga | gatttcccat | ttctgacaag | tttccagtgt | 360 |
| gggggctgat | gctgctgggc | cacggaccat | actttg | | | 396 |

<210> 568
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|-------------|------------|-------------|-----|
| <400> 568 | | | | | | |
| gggagagaat | gaagctggcc | aaggaacagg | gctgggtgtca | gctagcagtg | cttttctgat | 60 |
| gtgagtgggt | cccacagggg | gcttggttaa | atgcagattc | tgattcatta | ggttccagag | 120 |
| ggacctgaga | tttcccattt | ctgacaagtt | tccagtgtgg | gggctgatgc | tgctgggtcca | 180 |
| cggaccatac | tttgagtakc | aaggagcttg | atacataatg | gctgagtgtg | tttcagactc | 240 |
| ctgctgtaga | aaaattatga | gttggctggg | cgtgggtggc | cacgcctgta | atcccagcac | 300 |
| tttgggaggg | cgaggtgggc | agatcacctg | aggtcaggag | ttcgagacca | gcctggccaa | 360 |
| catggtgaaa | caccatctct | acaaaaata | caaaaa | | | 396 |

<210> 569
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 569 | | | | | | |
| acttaagccc | agaagactga | ggttgcagtg | agccgagatt | gcaccactgc | actccagctt | 60 |
| gggctacaga | gtgagactct | atctcaaaaa | caaagaaaca | aacaacaaca | ataacaacaa | 120 |
| aaaccaagtc | tctccctcca | ctcaaaaatg | caagggcctg | tctcccattg | ctgggtgccc | 180 |
| aggtctcatg | aatgtagaya | tgaattattc | cagtcagcct | caggagaata | gaatgagccc | 240 |
| tcagatgccg | aagcaccttt | cagattccac | cggttttatc | ggctcattta | aacttcactt | 300 |
| ctaacacagt | cctgcattac | acacgtgtct | gtcgttatgg | gcagctgcag | agagggtctt | 360 |
| aatggtccta | atgctcagtg | aggatgcccc | atgggtc | | | 396 |

<210> 570
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 570 | | | | | | |
| ctcaaaaaca | aagaaacaaa | caacaacaat | aacaacaaaa | accaagtctc | tccctccact | 60 |
| caaaaatgca | agggcctgtc | tcccattgct | gggtgccag | gtctcatgaa | tgtagatatg | 120 |
| aattattcca | gtcagcctca | ggagaataga | atgagccctc | agatgccgaa | gcacctttca | 180 |
| gattccaccg | gttttatcrg | ctcattttaa | cttcacttct | aacacagtcc | tgattacac | 240 |
| acgtgtctgt | cgttatgggc | agctgcagag | agggctctta | tggtccta | gctcagtgtg | 300 |
| gatgcccaat | ggtcaacaga | acctgccatc | ttcaggccat | caaggagctc | tggagttaag | 360 |
| gaaatcatga | gagcacagag | gggcgggtac | agcaga | | | 396 |

<210> 571
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 571 | | | | | | |
| tgtagatatg | aattattcca | gtcagcctca | ggagaataga | atgagccctc | agatgccgaa | 60 |
| gcacctttca | gattccaccg | gttttatcgg | ctcattttaa | cttcacttct | aacacagtcc | 120 |
| tgcattacac | acgtgtctgt | cgttatgggc | agctgcagag | agggctctta | tggtccta | 180 |
| gctcagtgtg | gatgcccart | ggtcaacaga | acctgccatc | ttcaggccat | caaggagctc | 240 |
| tggagttaag | gaaatcatga | gagcacagag | gggcgggtac | agcagagccc | tcgtggta | 300 |
| gggttttgag | gtctaggctc | tcttcacttg | ggtttgaaat | aagttcaatg | actagtaata | 360 |
| gctgagacac | ttctaccctt | caaatgaagt | aaatgg | | | 396 |

<210> 572
 <211> 396

<212> DNA

<213> Homo sapiens

<400> 572

```
agcacctttc agattccacc ggttttatcg gctcatttaa acttcacttc taacacagtc 60
ctgcattaca cagtggtctg tcgttatggg cagctgcaga gaggggtctta atggtcctaa 120
tgctcagtgga ggatgcccac tgggtcaacag aacctgccat cttcaggcca tcaaggagct 180
ctggagtttaa ggaaatcawg agagcacaga ggggcgggta cagcagagcc ctctggttaa 240
tgggttttga ggtctaggct ctcttcactt gggtttgaaa taagttcaat gactagtaat 300
agctgagaca cttctaccct tcaaataaag taaatgggaa aatggagcat tggtgagtc 360
agggagctat aatttaaacc ccatatatct aaaagg 396
```

<210> 573

<211> 396

<212> DNA

<213> Homo sapiens

<400> 573

```
cacacgtgtc tgtcgttatg ggcagctgca gagaggggtct taatggctct aatgctcagt 60
gaggatgccc aatgggtcaac agaacctgcc atcttcaggc catcaaggag ctctggagtt 120
aaggaaatca tgagagcaca gaggggcggg tacagcagag ccctcgtggt aatgggtttt 180
gaggtctagg ctctcttctc ttgggtttga aataagttca atgactagta atagctgaga 240
cacttctacc cttcaaataa agtaaatggg aaaatggagc attggtgagt ccaggagagct 300
ataattttaa ccccatatat ctaaaagggg taacattttt gtgtgtgtga aattgggtgtc 360
attcgactg catctacagt tttctttttc cttctc 396
```

<210> 574

<211> 396

<212> DNA

<213> Homo sapiens

<400> 574

```
acatatttgg gaaacgcac atactcttcc tgttctcat gtccgttgct ggcattattca 60
actattacct catcttcttt ttccgaagtg actttgaaaa ctacataaag acgatctcca 120
ccaccatctc ccctctactt ctcatctcct aactctctgc tgaatatggg gttgggtgtc 180
tcactaatac aatacctaya agtcacata attcagctct tgagagcatt ctgctcttct 240
ttagatggct gtaaatctat tggccatctg ggcttcacag cttgagttaa ccttgctttt 300
ccgggaacaa aatgatgtca tgtcagctcc gcccttgaa catgaccgtg gcccacaaat 360
tgctattccc atgcattttg tttgtttctt cactta 396
```

<210> 575

<211> 396

<212> DNA

<213> Homo sapiens

<400> 575

```
tggtgttctc atctaataca tacctacaag tcatcataat tcagctcttg agagcattct 60
gctcttcttt agatggctgt aaatctattg gccatctggg cttcacagct tgagttaacc 120
ttgcttttcc gggaacaaaa tgatgtcatg tcagctccgc cccttgaaca tgaccgtggc 180
cccaaatttg ctattccert gcattttgtt tgtttcttca cttatcctgt tctctgaaga 240
tgttttgtga ccagggtttg gttttcttaa aataaaatgc agagacatgt ttttaagctga 300
tagttgaggg gttttgttaa tggtttttgg gggatttatc tctataccca caaacgacta 360
gtttgttttc ctcaaactaa atgataatat taaaaa 396
```

<210> 576

<211> 396

<212> DNA

<213> Homo sapiens

<400> 576

```
ttatctctat acccacaac gactagtttg ttttctcaa actaaatgat aatattaaaa 60
atacacatcc tggccagggtg tgggtggctca tacctgtaac ccagcactt tgggaggccg 120
aggcagggtg atcacttgag gtcaggaatt aagaccagcc tggccaatat ggtgaaagcc 180
```

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| tgtctgtact | aaaaatacra | aaattagcca | ggtatgctgg | tggatgctta | taatcccagc | 240 |
| tacttgggag | ggtgaggcag | gagaattgct | tgaacccggg | aggtagaggt | tgcaagtgagc | 300 |
| caagatcatg | ccactgcact | ccagcttggg | caacagagtg | agactccatc | tcaaattaaa | 360 |
| aaaaatacac | atctggcttc | tggaaaaatt | acttga | | | 396 |

<210> 577
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|-------------|------------|-------------|-----|
| <400> 577 | | | | | | |
| gatcatgcc | ctgcactcca | gcttggggcaa | cagagtgaga | ctccatctca | aattaaaaaaa | 60 |
| aatacacatc | tggcttcttg | aaaaattact | tgaagatctt | ttatgacatc | catccctctt | 120 |
| cacacagcca | tgtgaattag | ggttggtatct | tcataatacta | gcatcgtgcc | cagcacttcc | 180 |
| atgttatata | gtttaaaakg | ttctgtaatt | ccctgtggga | acctaagata | atgcgaggac | 240 |
| cgtcatacgt | gcccccaaat | attggcaaac | caatgaataa | atgaatgaat | gagtttatga | 300 |
| atcgctaact | ggctgtatct | aatgaagtat | gtgtgttgag | ccatttccca | cagtgtggac | 360 |
| agatttgtcc | cacaatatgg | gcctcttccc | aaaggc | | | 396 |

<210> 578
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|-------------|-------------|-------------|-----|
| <400> 578 | | | | | | |
| aattaaaaaa | aatacacatc | tggcttcttg | aaaaattact | tgaagatctt | ttatgacatc | 60 |
| catccctctt | cacacagcca | tgtgaattag | ggttggtatct | tcataatacta | gcatcgtgcc | 120 |
| cagcacttcc | atgttatata | gtttaaaatg | ttctgtaatt | ccctgtggga | acctaagata | 180 |
| atgcgaggac | cgtcatacrt | gcccccaaat | attggcaaac | caatgaataa | atgaatgaat | 240 |
| gagtttatga | atcgctaact | ggctgtatct | aatgaagtat | gtgtgttgag | ccatttccca | 300 |
| cagtgtggac | agatttgtcc | cacaatatgg | gcctcttccc | aaaggcccta | ccacctaattg | 360 |
| ccatcacact | ggggatttga | tttcaacatg | tgaatt | | | 396 |

<210> 579
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| <400> 579 | | | | | | |
| agttcatagt | gacagtgate | cagccactgt | catgacaggt | gccacttggc | agaaacagca | 60 |
| cagcttggaa | gatggcgggg | tgtagtcaag | attccaggat | ccccaacaga | gaagccagct | 120 |
| cttatagggg | agccattcat | caggattgaa | ctctcaatcg | agctggacag | taataggtgg | 180 |
| gtctgtgtta | ttccccagrt | gagtatcatg | acagtcacaa | tcctaggaag | gatgtgaagc | 240 |
| ctcccccagc | tctcctccag | ttgcctgctt | gggcagcaga | gatgatggaa | tgtggagtct | 300 |
| ggcgtgggtct | gaggcctgaa | tccatgtgcc | tcattgtatga | tgctcaggca | agaggatctc | 360 |
| tcaattcaag | ggagagggcc | tgaatgagcc | ttgctt | | | 396 |

<210> 580
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|-------------|------------|------------|-----|
| <400> 580 | | | | | | |
| cttggcagaa | acagcacagc | ttggaagatg | gcgggggtgta | gtcaagattc | caggatcccc | 60 |
| aacagagaag | ccagctctta | taggggagcc | attcatcagg | attgaactct | caatcgagct | 120 |
| ggacagtaat | aggtgggtct | gtgttattcc | ccagatgagt | atcatgacag | tcacaatcct | 180 |
| aggaaggatg | tgaagcctyc | cccagctctc | ctccagttgc | ctgcttgggc | agcagagatg | 240 |
| atggaatgtg | gagtctggcg | tggctctgagg | cctgaatcca | tgtgcctcat | gtatgatgct | 300 |
| caggcaagag | gatctctcaa | ttcaaggag | agggcctgaa | tgagccttgc | tttcaggcc | 360 |
| tgtctgatgg | tccaggctga | agccctcct | ggcttg | | | 396 |

<210> 581
 <211> 396

<212> DNA
<213> Homo sapiens

<400> 581

| | | | | | | |
|------------|------------|------------|------------|------------|-------------|-----|
| ctggcgctgg | ctgaggcctg | aatccatgtg | cctcatgtat | gatgctcagg | caagaggatc | 60 |
| tctcaattca | agggagaggg | cctgaatgag | ccttgctttc | caggcctgtc | tgatgggtcca | 120 |
| ggctgaagcc | cctcctggct | tgcaactgca | gacctcatcc | agcaggagct | ccttggcatt | 180 |
| gactgcttca | ggatagttsc | ttctgctctg | agtgtctctc | aaagagcagt | gctctaccat | 240 |
| ccaagctggg | cttttctttt | cttcttgctg | atagggaagg | catgggacat | tgcaggatgg | 300 |
| aagtggcccc | caggccttct | catgcctggg | cttgggttgg | aaggtggtca | ggtgatcaat | 360 |
| aatcctgatt | ggcctggcat | tgaggagttt | tcctgg | | | 396 |

<210> 582

<211> 396

<212> DNA

<213> Homo sapiens

<400> 582

| | | | | | | |
|-------------|-------------|------------|------------|------------|------------|-----|
| tgctctctaa | agagcagtg | tctaccatcc | aagctgggct | tttcttttct | tcttgctgat | 60 |
| aggggaaggca | tgggacattg | caggatggaa | gtggccccc | ggccttctca | tgcctgggct | 120 |
| tgggttggaa | gggtggtcagg | tgatcaataa | tcctgattgg | cctggcattg | aggagttttc | 180 |
| ctgggatgtg | gtcctttcrg | ttttttaaaa | attattttta | ttgatacaca | tatttgtagg | 240 |
| tatttgtagg | gtgcatgtga | tactttatta | tgtgtgtgga | ttgtgtaaat | atgaagtcag | 300 |
| ggcatttagg | gtcttcatca | ccttgattat | catttctatg | tgttgagaac | atttcaagtt | 360 |
| ctcagttcca | gctattttga | aatagacagt | ccattt | | | 396 |

<210> 583

<211> 396

<212> DNA

<213> Homo sapiens

<400> 583

| | | | | | | |
|------------|-------------|------------|------------|-------------|------------|-----|
| gatactttat | tatgtgtgtg | gatttgtgta | tgatgaagtc | agggcattta | gggtcttcat | 60 |
| caccttgatt | atcattttcta | tgtgttgaga | acatttcaag | ttctcagttc | cagctatttt | 120 |
| gaaatagaca | gtccattttg | ttagctacag | tcacccaacc | cggctgtcag | acattggaac | 180 |
| ttactcctat | tgaactgtrt | atttgtaccc | attcaccaaa | ctctctttgg | gctttcagtt | 240 |
| ttacaactgg | gatgatcctg | ggaaaactaa | agtaaatcag | acacccgacg | tgtgagctag | 300 |
| gttataatat | gcccagtgga | ccctggggac | atcttagctt | tcagagggtca | tgctgtccaa | 360 |
| gctgactgtg | gggcttccag | aaggtgggga | gaggaa | | | 396 |

<210> 584

<211> 396

<212> DNA

<213> Homo sapiens

<400> 584

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|-----|
| tatgtgtgtg | gatttgtgta | tgatgaagtc | agggcattta | gggtcttcat | caccttgatt | 60 |
| atcattttcta | tgtgttgaga | acatttcaag | ttctcagttc | cagctatttt | gaaatagaca | 120 |
| gtccattttg | ttagctacag | tcacccaacc | cggctgtcag | acattggaac | ttactcctat | 180 |
| tgaactgtgt | atttgtacyc | attcaccaaa | ctctctttgg | gctttcagtt | ttacaactgg | 240 |
| gatgatcctg | ggaaaactaa | agtaaatcag | acacccgacg | tgtgagctag | gttataatat | 300 |
| gcccagtgga | ccctggggac | atcttagctt | tcagagggtca | tgctgtccaa | gctgactgtg | 360 |
| gggcttccag | aaggtgggga | gaggaaatga | tgcaat | | | 396 |

<210> 585

<211> 396

<212> DNA

<213> Homo sapiens

<400> 585

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tgggaaaact | aaagtaaata | agacacccga | cgtgtgagct | aggttataat | atgcccagtg | 60 |
| gaccctgggg | acatcttagc | tttcagaggt | catgctgtcc | aagctgactg | tggggcttcc | 120 |
| agaaggtggg | gagaggaaat | gatgcaatgg | cccatcagag | gcactacttg | gggcctgggg | 180 |

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| ccagagtgc | tgtctaagsc | attaagggga | ggggagagca | gccttcataa | ttatgaagag | 240 |
| gagtcctcagg | tgcacagctt | ctgatgaggg | acagcttcta | attgaagaca | gcattgtgta | 300 |
| atgctcaaac | tccctgtctt | cagagtgcct | gctgtatccc | accatcagtt | ctgtgacttc | 360 |
| tccctaagcc | tcaattttgc | atgtgttaca | ttggga | | | 396 |

<210> 586
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 586 | | | | | | |
| cctgcatagc | aaattcttgc | aaatgtaggg | actcaaaaca | atataaattt | attatctgac | 60 |
| agtttttctg | ggtcagaggt | cttactaggg | tgtaatcaga | gggcaacraa | agctgtgatc | 120 |
| tcagctgaag | ctcaggattc | tcttccaagc | tcactgggtg | ttggcagaat | tcagttcttt | 180 |
| ccagttggaa | gactaaagyc | tacagtcttc | agtctctaga | agccttttct | ctggcacagg | 240 |
| tttctctaca | acatggccat | ttatgtcttt | aaggccaata | ggagaacatg | attagcatat | 300 |
| tttttttaag | tgaactttag | accctttttt | aaaggcctat | ctgattaggc | caggccaag | 360 |
| tgagctttaa | gtcaactgat | tagagatctt | aattac | | | 396 |

<210> 587
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 587 | | | | | | |
| ctgaagctca | ggattctctt | ccaagctcac | tggttggttg | cagaattcag | ttctttccag | 60 |
| ttggaagact | aaagcctaca | gtcttcagtc | tctagaagcc | ttttctctgg | cacaggtttc | 120 |
| tctacaacat | ggccatttat | gtctttaagg | ccaataggag | aacatgatta | gcatattttt | 180 |
| tttaagtga | ctttagacyc | ttttttaaag | gcctatctga | ttaggccagg | cccaagtga | 240 |
| ctttaagtca | actgattaga | gatcttaatt | acatctgcaa | agtcccttca | tgtttaccgt | 300 |
| ataacataac | ttagtgaag | gagtgaatt | gcaaccagg | tctgcctgca | ctccacggaa | 360 |
| ggggattctg | cagaagtgtg | ggtcacgggg | gggtta | | | 396 |

<210> 588
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 588 | | | | | | |
| agaacatgat | tagcatat | tttttaagtg | aactttagac | ccttttttaa | aggcctatct | 60 |
| gattaggcca | ggcccaagtg | agctttaagt | caactgatta | gagatcttaa | ttacatctgc | 120 |
| aaagtccctt | catgtttacc | gtataacata | acttagtgaa | aggagtga | ttgcaaccag | 180 |
| gttctgcctg | cactccacrg | aaggggattc | tgcagaagtg | tgggtcacgg | gggggttatt | 240 |
| ttgggattct | gcctacgtca | ctgagtcaaa | agaagctgaa | tggttgat | gctgagggtt | 300 |
| ttgggcagca | gcagtgtgtg | tgtgtgagtg | aattcatacg | tatgaccacc | tggaagaaa | 360 |
| ggaggctgtg | gtttcctcca | cctcctggca | gacaga | | | 396 |

<210> 589
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 589 | | | | | | |
| gggattacag | acacacactg | ccagcctgg | ctaatttttg | tatttttagt | agagacgagg | 60 |
| ttttgccatg | ttggccaggc | tggtcttgaa | ctcctgacct | caagtgatcc | gcccacctca | 120 |
| gcctcccaa | gtgctgggat | tacagacgtg | agccaccatt | aaccattttt | ctatctcctg | 180 |
| tgggaaaggg | cacagtgara | gaacagatga | agctgagaca | tacaagtga | ctcctccctc | 240 |
| ctctccattt | agactaaaat | aggattat | atactgagat | tctccctgg | tgcaaagaga | 300 |
| taatctgtgc | aactgggtt | ttacaattat | ccctacccta | tgctttctc | atctgtcttc | 360 |
| ctcgtagtca | gctcaggctg | ctataacaaa | acacca | | | 396 |

<210> 590
 <211> 396

<212> DNA
<213> Homo sapiens

<400> 590

```
ggcagattcg gtgtctaata aggtcctgct ttccagttta tagacagtgc cttatcgcta 60
ccgccttaca cagtggaagg agaggacgag aagctccttg ggcttttttt tgtttctttc 120
tttctctctc tctctctttt tttttttttt aataagggtc ctatcttagt ccattttgtg 180
ttgctaaaag gaacatctra ggttgagtaa tttattttat tttaaaaagt ggccaggcat 240
ggaggcttat cctgtaaccc taatccttta ggaggccaaa acagcaggat tgtttgaggc 300
caggagttca agaccagcct aggcaagata gtgagacccc atctaccca tctctactaa 360
aattttaaaa aattagctgt gtgttgtaaa gtgtgc 396
```

<210> 591

<211> 396

<212> DNA

<213> Homo sapiens

<400> 591

```
aatttatttt attttaaaaa gtggccaggc atggagggtt atcctgtaac cctaatecctt 60
taggaggcca aaacagcagg attgtttgag gccaggagtt caagaccagc ctaggcaaga 120
tagtgagacc ccactctacc catctctact aaaattttta aaaatttagt gtgtgttgta 180
aagtgtgctt gtatgcccr gactctgaga ggctgagggtt ggtggagttc aaggctgcag 240
tgagttatga ttgagccact gcaactccaac ccgggttaacg gggcaagacc ttgtctctat 300
ttaaaaaaaaa aaaatcttta tgtggctcac tattctgggt ggctggaaag ttcaagattg 360
ggcatctgca tctggtgaca gctcatgtc gcttcc 396
```

<210> 592

<211> 396

<212> DNA

<213> Homo sapiens

<400> 592

```
taaccctaata cctttaggag gccaaaacag caggattgtt tgaggccagg agttcaagac 60
cagcctaggc aagatagtga gaccccatct accccatctc tactaaaatt ttaaaaaatt 120
agctgtgtgt tgtaaagtgt gcttgttagt ccggccactt gagaggctga ggtgggtgga 180
gttcaaggct gcagtgagwt atgattgagc cactgcactc caaccgggt aacggggcaa 240
gacctgtctc ctatttaaaa aaaaaaaatc tttatgtggc tcactattct ggttggtgg 300
aaagttcaag attgggcata tgcactctgt gacagcctca tgtcgcttcc agtcatgggg 360
gaagacgaag gagagctggc acgtgcagat atcacg 396
```

<210> 593

<211> 396

<212> DNA

<213> Homo sapiens

<400> 593

```
atccttttagg aggccaaaac agcaggattg tttgaggcca ggagttcaag accagcctag 60
gcaagatagt gagaccccat ctaccccatc tctactaaaa ttttaaaaaa ttactgtgtg 120
gttgtaaagt gtgcttgtag tccgggccac ttgagaggct gaggtgggtg gagttcaagg 180
ctgcagttag ttatgattr gcaactgcac tccaacccgg gtaacggggc aagaccttgt 240
ctctatttaa aaaaaaaaaa tctttatgtg gctcactatt ctgggtggct ggaaagtcca 300
agattgggca tctgcatctg gtgacagcct catgtcgctt ccagtcattg ggaagacga 360
aggagagctg gcacgtgcag atatcacgtg ttgagg 396
```

<210> 594

<211> 396

<212> DNA

<213> Homo sapiens

<400> 594

```
ttaaaaaatt agctgtgtgt tgtaaagtgt gcttgttagt ccggccactt gagaggctga 60
ggtgggtgga gttcaaggct gcagtgagtt atgattgagc cactgcactc caaccgggt 120
aacggggcaa gacctgtctc ctatttaaaa aaaaaaaatc tttatgtggc tcactattct 180
```

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| gggtggctgg | aaagttcarg | attgggcac | tgcacgtgt | gacagcctca | tgctgcttcc | 240 |
| agtcagggg | gaagacgaag | gagagctggc | acgtgcagat | atcacgtgtt | gagggcagaa | 300 |
| gcgagagaga | gaggggagag | atgccaggct | ctttttaaca | accagcactg | gggaaactaa | 360 |
| tagagtgaga | gctcactgac | tcctgaggga | ggacat | | | 396 |

<210> 595
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| <400> 595 | | | | | | |
| atgggggaag | acgaaggaga | gctgggcacgt | gcagatatca | cgtgttgagg | gcagaagcga | 60 |
| gagagagagg | ggagagatgc | caggctcttt | ttaacaacca | gcactgggga | aactaataga | 120 |
| gtgagagctc | actgactcct | gagggaggac | attaatctat | tgatgagcga | cctgcctcca | 180 |
| tgacccaaac | acctccaayg | atacccacc | tccaacactg | ccacactagg | gattaacttt | 240 |
| caacttgaga | tttagagggg | ggaaacttac | aaactatcgc | aggcactaat | accactcatg | 300 |
| agggctccac | cttcatgacc | taatcacttc | ctaaaggcct | tacctcttaa | tctcatcaca | 360 |
| ttgaggattc | gatttcaact | tgaattttgg | ggggac | | | 396 |

<210> 596
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 596 | | | | | | |
| ctcgctgcca | cctgaaatta | gatcatttat | ttaccctttt | atttgttcag | tttgccttgt | 60 |
| ccgttagaat | ataagcttcc | aaagggcagg | agctttgcct | atattgttag | gccgggcata | 120 |
| caatgagcac | tcaaaaaaat | atttgatgag | tgtatgaaag | aacagactgg | gttatgtaat | 180 |
| tgtgcctact | tacctatayg | accgtgtggg | ggggtttatg | gtgggtgtgg | tggtgatggc | 240 |
| tatagggcta | taagcaaatt | tgggacaggg | agtctaagaa | atgttcttaa | attttagtaa | 300 |
| gcaaagcatc | ctctacagaa | cctgtcttaa | aacatgaaag | ttccttagtg | ctacccccag | 360 |
| aggtatgatt | tggtaggtca | aggatagggc | ctggaa | | | 396 |

<210> 597
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|------------|-----|
| <400> 597 | | | | | | |
| tgccacctga | aattagatca | tttattttacc | cctttatttg | ttcagtttgc | cttgtccgtt | 60 |
| agaatataag | cttccaaagg | gcaggagcct | tgccatatatt | gttaggccgg | gcatacaatg | 120 |
| agcactcaaa | aaaatatttg | atgagtgtat | gaaagaacag | actgggttat | gtaattgtgc | 180 |
| ctacttacct | atatgaccrt | gtgggtgggt | ttatgggtggg | tggtgggtgtg | atggctatag | 240 |
| ggctataagc | aaattttggga | cagggagtcct | aagaaatgtt | cttaaatttt | agtaagcaaa | 300 |
| gcatcctcta | cagaacctgt | cttaaaacat | gaaagttcct | tagtgctacc | cccagaggta | 360 |
| tgatttggtg | ggtcaaggat | agggcctgga | aattca | | | 396 |

<210> 598
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| <400> 598 | | | | | | |
| cctgtcttaa | aacatgaaag | ttccttagtg | ctacccccag | aggtatgatt | tggtaggtca | 60 |
| aggatagggc | ctggaaattc | acattcttgt | taagatgttc | ttcatccggg | gtttgttgac | 120 |
| caccttttca | gaagattttt | gctctgtagc | tgtactaccc | aatgcagtag | ttcgtagtca | 180 |
| gtgtggctcc | tgagccctyg | aagtgtagct | cctctgaact | gagacgtgct | gtaaatgtaa | 240 |
| attgcacacc | ggagtttgaa | gagttaatac | aaagaaaaag | gaatgcaaaa | catctcatta | 300 |
| ataatgcttt | acactgatta | catattgaaa | tggtaatctt | gtagatatag | tggtttaa | 360 |
| aaaatatact | gttaggctta | atttcacgtc | tttata | | | 396 |

<210> 599
 <211> 396

<212> DNA
<213> Homo sapiens

<400> 599

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tcagccaatc | aacaagaggg | caaaagaaca | aacatttgat | gtgtaattac | ttaatttagt | 60 |
| gcatatgcat | ttgggtcctc | aatgtcagca | ctatggcaac | cagaacatgg | ccacaataac | 120 |
| tgtctggaaa | tgtctattct | tacctggacc | cagcaggcca | tgccccactg | attatataat | 180 |
| ctccctctct | ccttgttayg | gtctgaatgc | ttgcatccct | caaaaattca | tgtgttgaaa | 240 |
| tcctaaccct | caaggtgatg | atattaggag | gtcggccttt | tgagaggtaa | ttaggtcatg | 300 |
| aagacagcat | cctcatgaat | gggattagtg | tccttataaa | ataggcccaa | gggagctcat | 360 |
| tcactttgtc | caccatgtga | gaacacagcg | agaggg | | | 396 |

<210> 600

<211> 396

<212> DNA

<213> Homo sapiens

<400> 600

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ccttgttacg | gtctgaatgc | ttgcatccct | caaaaattca | tgtgttgaaa | tcctaaccct | 60 |
| caaggtgatg | atattaggag | gtcggccttt | tgagaggtaa | ttaggtcatg | aagacagcat | 120 |
| cctcatgaat | gggattagtg | tccttataaa | ataggcccaa | gggagctcat | tcactttgtc | 180 |
| caccatgtga | gaacacagyg | agagggcacc | atttatgcac | caggaaatgg | gccttttcca | 240 |
| gacaatctgt | cgggtgcctg | atccttgact | tcacagcctc | tagaactgtg | agaaattaat | 300 |
| ttgtttttta | taagccacca | aatctatgg | tttttttata | gaaaccgtaa | tggactaaaa | 360 |
| cactccctaa | ttatatttaa | acttatcagt | gcactg | | | 396 |

<210> 601

<211> 396

<212> DNA

<213> Homo sapiens

<400> 601

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| ctaaccacca | aggtgatgat | attaggaggt | cggccttttg | agaggtaatt | aggtcatgaa | 60 |
| gacagcatcc | tcatgaatgg | gattagtgtc | cttataaaat | aggcccaagg | gagctcattc | 120 |
| actttgtcca | ccatgtgaga | acacagcgag | agggcaccat | ttatgcacca | ggaaatgggc | 180 |
| cttttccaga | caatctgtyg | gtgcctggat | cttggacttc | acagcctcta | gaactgtgag | 240 |
| aaattaat | gttttttata | agccaccaa | tctatgggtt | tttttataga | aaccgtaatg | 300 |
| gactaaaaca | ctccctaatt | atatttaaac | ttatcagtgc | actgggcagt | gacatattaa | 360 |
| aagaatgctg | gccaacgtaa | ttgacaccat | aaggct | | | 396 |

<210> 602

<211> 396

<212> DNA

<213> Homo sapiens

<400> 602

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| tcacttcatt | ttaacctttt | gtttcaaagc | ctctcttttc | atgacttccc | cgccttcatt | 60 |
| tttcccatat | ggtgggggta | ttattaagac | attaaatgag | agtggacagg | taggcaaagy | 120 |
| aggtggggtg | caggggagtt | gaggggtgcc | tgtgtacttt | tctagactgt | tccacttcac | 180 |
| atcagtga | tattcccart | tgatactatc | atgaaacaaa | gcaaataaaa | tgctgagcac | 240 |
| ggagcttcgt | cttgatgaaa | tgctgaaaga | aaagaaagga | aaaataaagt | agccattatt | 300 |
| tttgcccttc | ctcccacccc | catgtttact | actcttattt | ctcttttgta | ttgttgtgtt | 360 |
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<210> 603

<211> 396

<212> DNA

<213> Homo sapiens

<400> 603

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| actgttccac | ttcacatcag | tgaaatattc | ccaattgata | ctatcatgaa | acaaagcaaa | 120 |
| tgaaatgctg | agcacggagc | ttcgtcttga | tgaaatgctg | aaagaaaaga | aaggaaaaat | 180 |

| | | | | | | |
|------------|-------------|-------------|------------|------------|------------|-----|
| aaagtagcca | ttatTTTTtrc | ccttctctccc | acccccatgt | ttactactct | tatttctctt | 240 |
| ttgtattgtt | gtgttggaag | cacagcatca | gaaaaactcc | cagttttgag | agataactca | 300 |
| gtgtttagtt | cacttaaacc | tgagaaagga | gaagaggatg | ccaccgtgag | gtccaggacg | 360 |
| taaagaggaa | aaaaacagac | aaaaaaatcc | atatga | | | 396 |

<210> 604
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
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| ctgttccact | tcacatcagt | gaaatattcc | caattgatac | tatcatgaaa | caaagcaa | 120 |
| gaaatgctga | gcacggagct | tcgtcttgat | gaaatgctga | aagaaaagaa | aggaaaaata | 180 |
| aagtagccat | tatTTTTgmc | cttctctcca | cccccatgtt | tactactctt | atttctcttt | 240 |
| tgtattgttg | tggtggaagc | acagcatcag | aaaaactccc | agttttgaga | gataactcag | 300 |
| tgtttagttc | acttaaacc | gagaaaggag | aagaggatgc | caccgtgagg | tccaggacgt | 360 |
| aaagaggaaa | aaaacagaca | aaaaaatcca | tatgaa | | | 396 |

<210> 605
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
|-------------|------------|------------|------------|------------|------------|-----|
| <400> 605 | | | | | | |
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| ccttctctccc | acccccatgt | ttactactct | tatttctctt | ttgtattgtt | gtgttggaag | 120 |
| cacagcatca | gaaaaactcc | cagttttgag | agataactca | gtgtttagtt | cacttaaacc | 180 |
| tgagaaagga | gaagaggayg | ccaccgtgag | gtccaggacg | taaagaggaa | aaaaacagac | 240 |
| aaaaaaatcc | atatgaaatg | aaaatgtgaa | agaggcgctt | tcgagcagat | gagtgttgta | 300 |
| gattacagtg | ttgagagctg | tttgtgtcca | gagctgcttg | ctgcacctgg | cgggataaac | 360 |
| actggtctaa | cagaggatcc | ttgtttcaag | gaggct | | | 396 |

<210> 606
 <211> 396
 <212> DNA
 <213> Homo sapiens

| | | | | | | |
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| tactactctt | atttctcttt | tgtattgttg | tggtggaagc | acagcatcag | aaaaactccc | 120 |
| agtttttaga | gataactcag | tgtttagttc | acttaaacc | gagaaaggag | aagaggatgc | 180 |
| caccgtgagg | tccaggacrt | aaagaggaaa | aaaacagaca | aaaaaatcca | tatgaaatga | 240 |
| aaatgtgaaa | gaggcgcttt | cgagcagatg | agtgtttag | attacagtgt | tgagagctgt | 300 |
| ttgtgtccag | agctgcttgc | tgcacctggc | gggataaaca | ctggtctaac | agaggatcct | 360 |
| tgtttcaagg | aggctgcctt | ttatTTTgggg | ggacaa | | | 396 |

<210> 607
 <211> 396
 <212> DNA
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| | | | | | | |
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| tgtgttgga | gcacagcatc | agaaaaactc | ccagttttga | gagataactc | agtgtttagt | 120 |
| tcacttaa | ctgagaaagg | agaagaggat | gccaccgtga | ggccaggac | gtaaagagga | 180 |
| aaaaaacaga | caaaaaaayc | catatgaaat | gaaaatgtga | aagaggcgct | ttcgagcaga | 240 |
| tgagtgttgt | agattacagt | gttgagagct | gtttgtgtcc | agagctgctt | gctgcacctg | 300 |
| gcgggataaa | cactggtcta | acagaggatc | cttgtttcaa | ggaggctgcc | ttttatttgg | 360 |
| ggggacaaaa | ttgttcttga | aagctgctca | gtgggt | | | 396 |

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<212> DNA
<213> Homo sapiens

<400> 608

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gtaaagagga aaaaaacaga caaaaaaatc catatgaaat gaaaatgtga aagaggcgct 180
ttcgagcaga tgagtgttrt agattacagt gttgagagct gtttgtgtcc agagctgctt 240
gctgcacctg gcgggataaa cactggtcta acagaggatc cttgtttcaa ggaggctgcc 300
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gtggactagc agaatggact ccagggcctc cgagga 396
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<400> 609

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atgtgaaaga ggcgctttcg agcagatgag tgtttagatg tacagtgttg agagctgttt 180
gtgtccagag ctgcttgcyg cacctggcgg gataaacact ggtctaacag aggatccttg 240
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ctgctgccag aaatagtcaa ggatagaaag gaagga 396
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